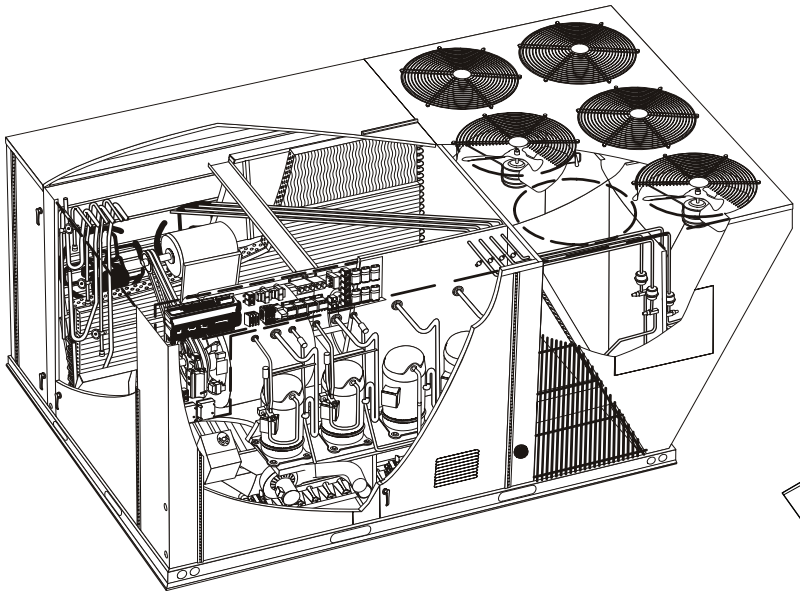
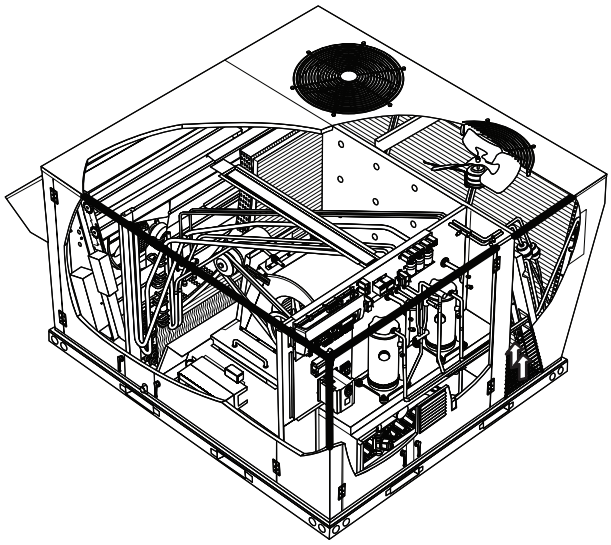
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# USER'S INFORMATION MANUAL

# SG 036, 060, 120, 240

## ROOFTOP UNITS





**⚠ WARNING**

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier.

**READ ALL INSTRUCTIONS IN THIS MANUAL AND RETAIN FOR FUTURE REFERENCE**



**⚠ WARNING**

**FIRE OR EXPLOSION HAZARD**

**Failure to follow safety warnings exactly could result in serious injury, death, or property damage.**

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

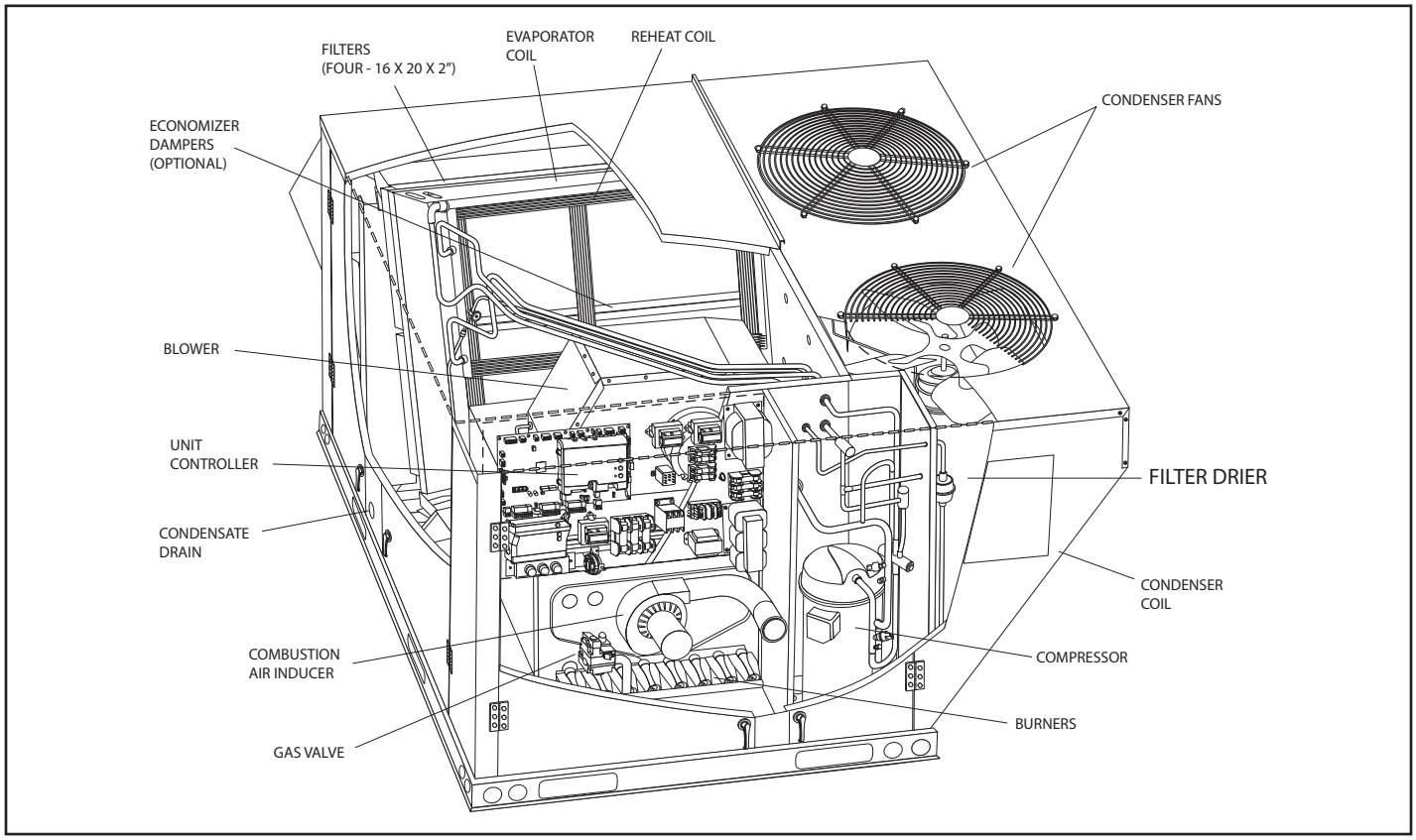
**Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

### WHAT TO DO IF YOU SMELL GAS:

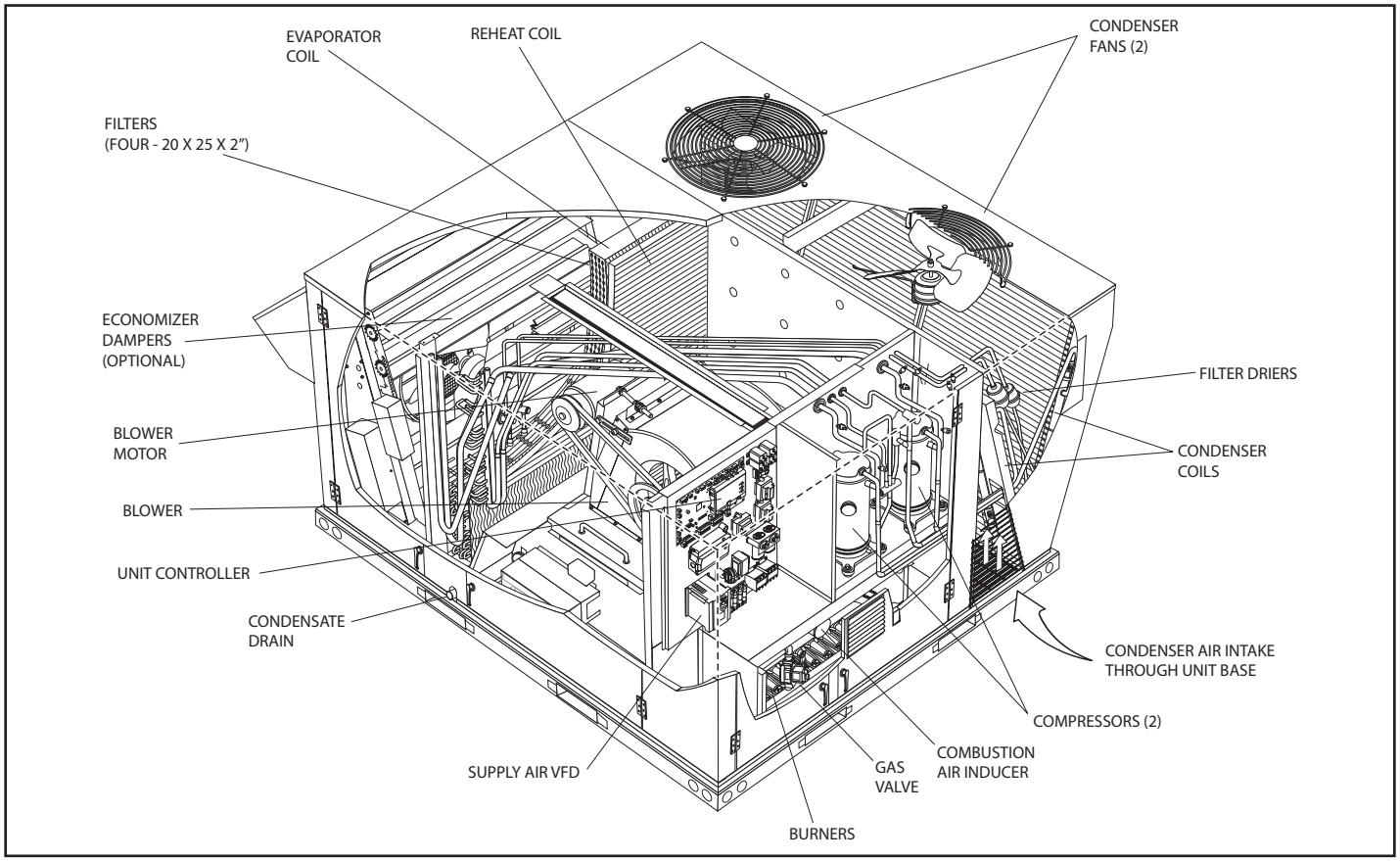
- **Do not try to light any appliance.**
- **Extinguish any open flames.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Leave the building immediately**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
-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

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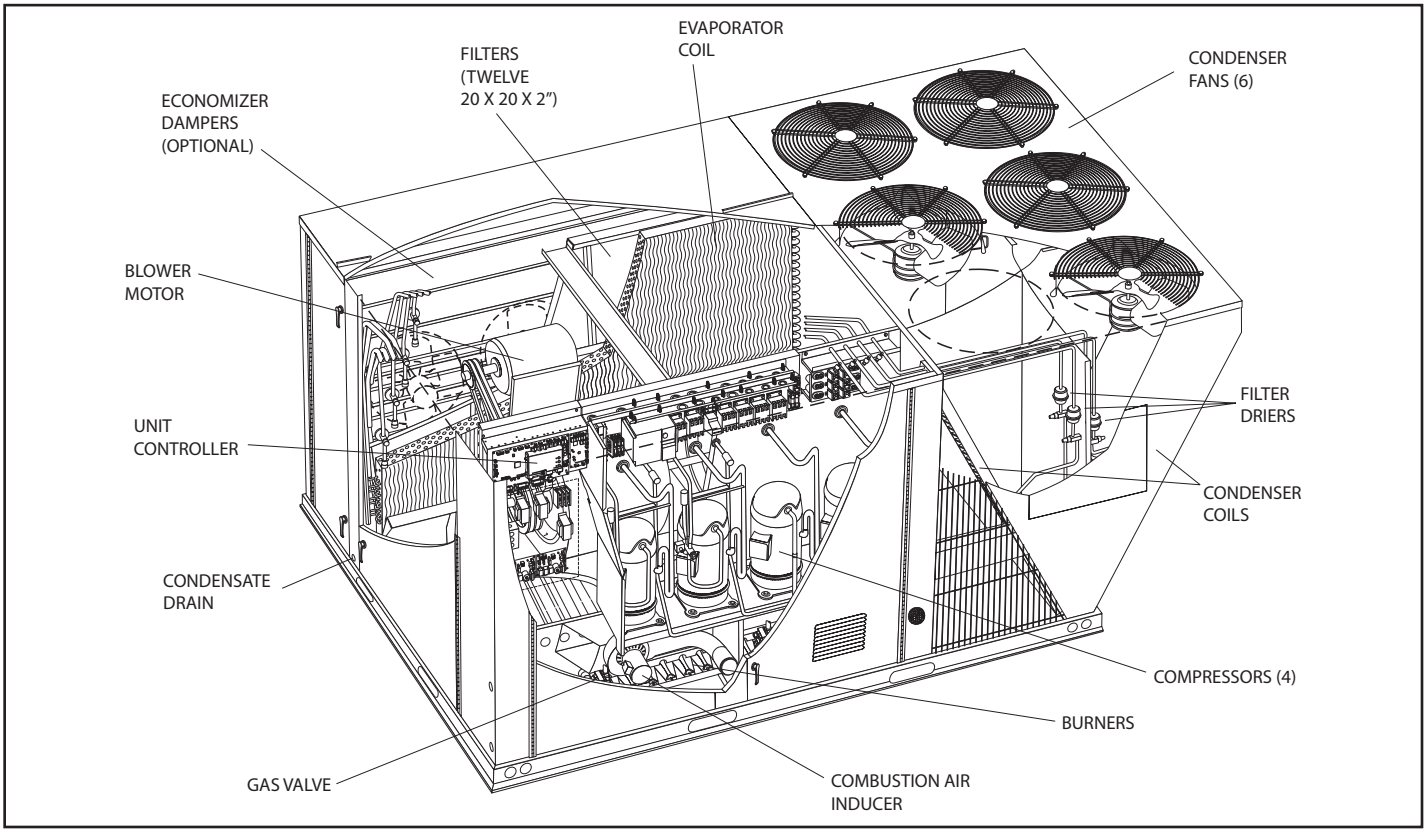
## SGH036, 060 Parts Arrangement




## SGH120 Parts Arrangement



## SGH240 Parts Arrangement




## Safety

1 - Keep unit area clear and free of combustible materials, gasoline and other flammable vapors and liquids.

2 - Do not obstruct air flow to unit. Unit must receive an unobstructed flow of combustion and ventilating air.

**⚠ CAUTION**

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction

**⚠ CAUTION**

Children should be supervised not to play with the appliance.

**⚠ CAUTION**

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

**⚠ CAUTION**

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**⚠ WARNING**



Electric shock hazard. Can cause injury or death. Before attempting to perform any service or maintenance, turn the electrical power to unit OFF at disconnect switch(es). Unit may have multiple power supplies.

**⚠ WARNING**



Danger of electrical shock, explosion and fire. Improper servicing could result in dangerous operation, serious injury, death or property damage.

**⚠ WARNING**

Do not use this furnace if any part has been under water. A flood-damaged furnace is extremely dangerous. Attempts to use the furnace can result in fire or explosion. A qualified service agency should be contacted to inspect the furnace and to replace all gas controls, control system parts, electrical parts that have been wet or the furnace if deemed necessary.

## ⚠ WARNING

Danger of explosion. Can cause injury or product or property damage. If overheating occurs or if gas supply fails to shut off, shut off the manual gas valve to the appliance before shutting off electrical supply.

## ⚠ WARNING

SMOKE POTENTIAL

The heat exchanger in this unit could be a source of smoke on initial firing. Take precautions with respect to building occupants and property. Vent initial supply air outside when possible.

## Unit Operation

**FOR YOUR SAFETY READ BEFORE LIGHTING**

**BEFORE LIGHTING** smell all around the furnace area for gas. Be sure to smell next to the roof because some gas is heavier than air and will settle on the roof.

The gas valve is equipped with a gas control lever. Use only your hand to push the lever. Never use tools. If the the lever will not move by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

The unit is equipped with an automatic spark ignition system. There is no pilot. In case of a safety shutdown, move thermostat switch to **OFF** and return the thermostat switch to **HEAT.** For logic units and units with electronic temperature controls, shut off the main disconnect and then turn it on to reset the ignition control.

**Placing Unit Into Operation**

## ⚠ WARNING

Danger of explosion and fire. Can cause injury or product or property damage. You must follow these instructions exactly.

**Gas Valve Operation (Figure 1 and Figure 2)**

1 - Set thermostat to lowest setting.

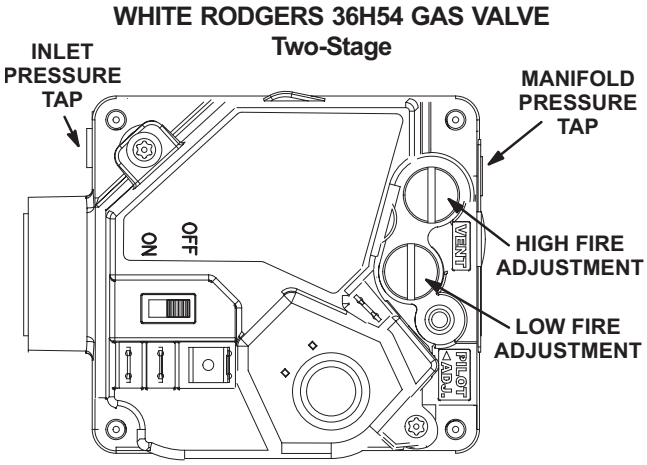
2 - Turn off all electrical power to appliance.

3 - This appliance is equipped with an ignition device which automatically lights the burner. Do **not** try to light the burner by hand.

4 - Open the heat section access panel.

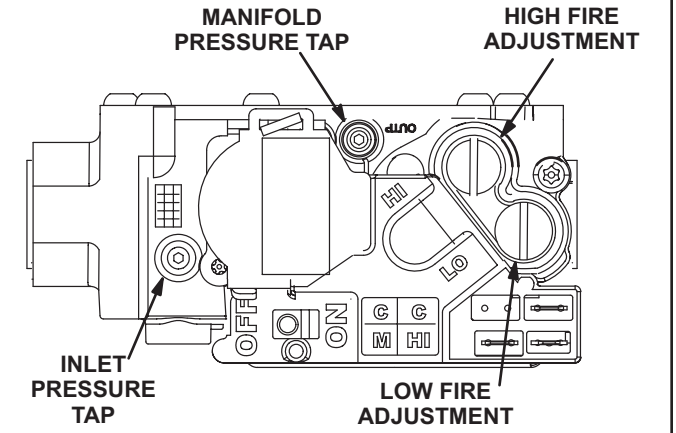
5 - Move the gas valve lever to **OFF**.

6 - Wait five (5) minutes to clear out any gas. If you then smell gas, **STOP!** Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you do not smell gas, go to the next step.




GAS VALVE LEVER SHOWN IN **ON** POSITION.

**FIGURE 1**




GAS VALVE LEVER SHOWN IN OFF POSITION.

**FIGURE 2**

7 - Move the gas valve lever to **ON.**

8 - Close or replace the heat section access panel.

9 - Turn on all electrical power to appliance.

10 - Set thermostat to desired setting.

11 - The ignition sequence will start.

12 - If the appliance does not light the first time (gas line not fully purged), it will attempt up to two more ignitions before locking out.

13 - If lockout occurs, repeat steps 1 through 10.

14 - If the appliance will not operate, follow the instructions "Turning Off Gas to Appliance" and call your service technician or gas supplier.

**Turning Off Gas to Unit**

1 - If using an electromechanical thermostat, set to the lowest setting.
2 - Before performing any service, turn off all electrical power to the appliance.
3 - Open or remove the heat section access panel.
4 - Move the gas valve lever to **OFF.** Do not force.
5 - Replace the heat section access panel.

**⚠ WARNING**

Danger of explosion. Can cause injury or death. Do not attempt to light manually. Unit has a direct spark ignition system.

## Burner Flame

**⚠ WARNING**

Danger of explosion and fire. Can cause injury or product or property damage. Periodically inspect burner flame to ensure proper unit operation.

The primary air is permanently set for normal operation. The flame will be basically blue with some clear yellow streaking in the end of the flame. Inspect the burner flame periodically during the heating season using the inspection port provided on the burner access panel.

## Flue Passage and Vent Inspection

Annually, before heating season, inspect the combustion air louvers, vent cap, heat exchanger, burners and combustion air inducer for corrosion, deterioration or deposits of debris. Remove any obstructions or blockage. See Figure 3 and Figure 4.

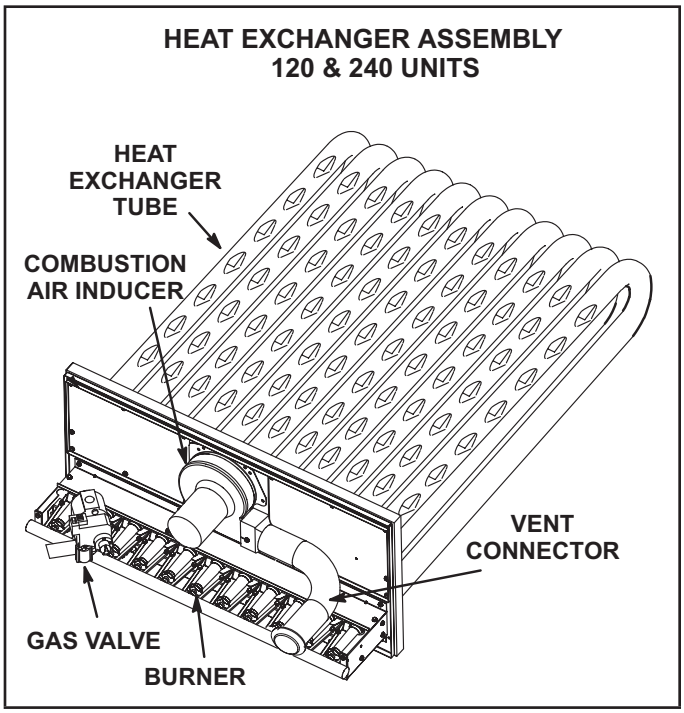



**FIGURE 3**

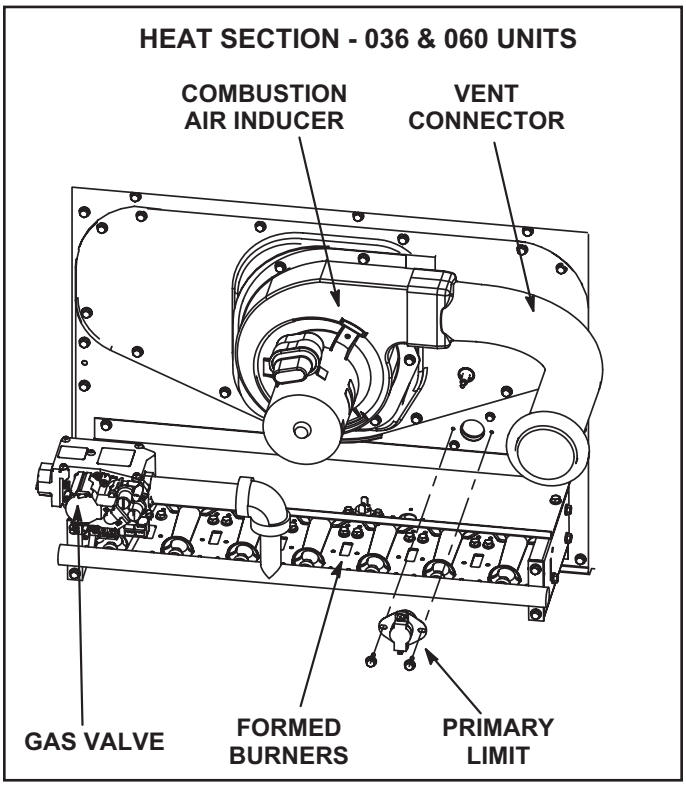



**FIGURE 4**

## Service

To maintain efficiency and longevity, your equipment must be serviced yearly by a qualified service technician. Failure to provide proof of service can void warranty.

**⚠ CAUTION**

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**Servicing Filter**

Units are equipped with filters as shown in TABLE 1. Filters should be checked monthly and replaced when necessary. Take note of air flow direction marking on filter frame when reinstalling filters. See Figure 5.

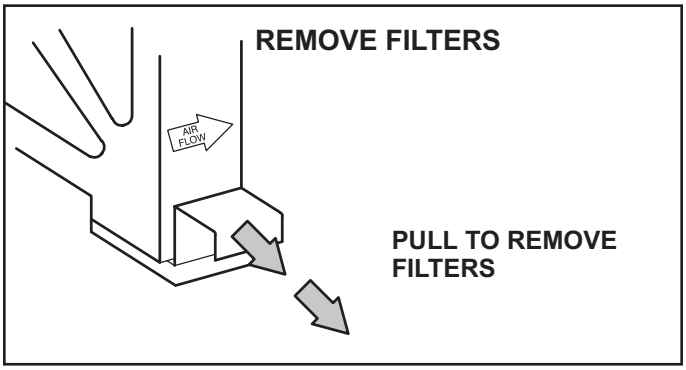



**FIGURE 5**

NOTE - Filters must be U.L.C. certified or equivalent for use in Canada.

**TABLE 1**

**UNIT FILTERS**

| Unit | Qty | Filter Size - inches (mm) |
|---|---|---|
| 036, 060 | 4 | 16 X 20 X 2 (406 X 508 X 51) |
| 120 | 4 | 20 X 25 X 2 (508 X 635 X 51) |
| 240 | 12 | 20 X 20 X 2 (508 X 508 X 51) |

**NOTE** - Filters must be ULC approved or equivalent for use in Canada.

### Lubrication

All motors are lubricated at the factory. No further lubrication is required.

Blower shaft bearings are prelubricated. For extended bearing life, relubricate at least once every two years with a lithium base grease, such as Alvania 3 (Shell Oil), Chevron BRB2 (Standard Oil) or Regal AFB2 (Texas Oil). Use a hand grease gun for relubrication. Add only enough grease to purge through the bearings so that a bead of grease appears at the seal lip contacts.

### Manifold Pressures

Manifold pressures are shown in TABLE 2. Refer to Figure 1 or Figure 2 to locate pressure ports.

**TABLE 2**

**MANIFOLD PRESSURES in w.g. (kPa)**

| Unit | Natural Gas | | Propane (LP) Gas | |
|---|---|---|---|---|
| | 1st Stage ± 0.2 | 2nd Stage ± 0.3 | 1st Stage ± 0.2 | 2nd Stage ± 0.3 |
| 036, 060 | 2.0 (0.50) | 3.5 (0.87) | 5.9 (1.47) | 10.5 (2.61) |
| 120, 240 | 1.6 (0.40) | 3.7 (0.92) | 5.5 (1.37) | 10.5 (2.61) |

### Burners

Clean the burners as follows:

1 - Turn off both electrical power and gas supply to the unit.

2 - Open burner compartment access panel.

3 - Remove and retain screws securing burner box top cap. See Figure 6 and Figure 7.

4 - Remove and retain two screws securing burners to burner support and lift the individual burners or the entire burner assembly from the orifices. See Figure 6 or Figure 7. Clean as necessary.

5 - Replace burners and secure with retained screws.

6 - Replace access panel.

7 - Turn on the electrical power and the gas supply to the unit. Follow the operating instructions attached to the unit and use the inspection port in the access panel to check the flame.

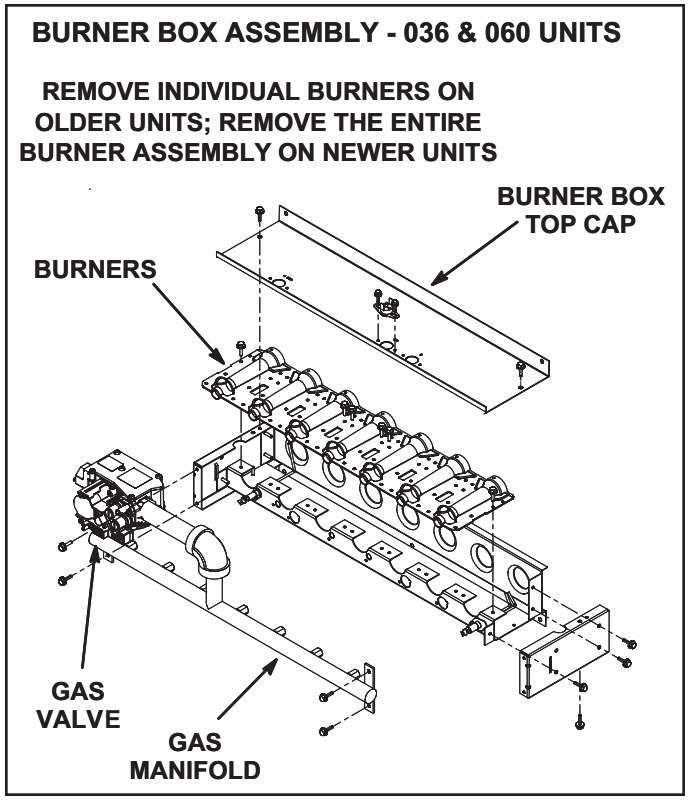



**FIGURE 6**

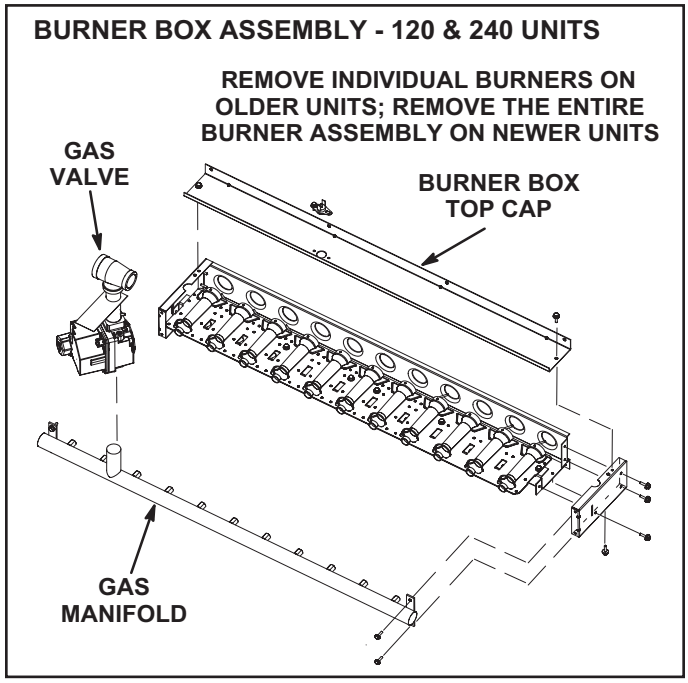



**FIGURE 7**

**Combustion Air Inducer**

A combustion air inducer proving switch checks combustion air inducer operation before allowing power to the gas controller. The gas controller will not operate if the inducer is obstructed.

Under normal operating conditions, the combustion air inducer wheel should be checked and cleaned prior to the heating season. However, it should be examined periodically during the heating season to establish an ideal cleaning schedule. With power supply disconnected, the condition of the blower wheel can be determined by looking through the vent opening.

Clean the combustion air inducer as follows:

1 - Shut off power supply and gas to unit.

2 - Disconnect pressure switch air tubing from the combustion air inducer port.

3 - Remove and retain the screws securing the combustion air inducer to the flue box. Remove and retain two screws from bracket supporting the vent connector. See Figure 3 or Figure 4.

4 - Clean blower wheel blades with a small brush and wipe off any dust from the housing. Clean accumulated dust from the front of the flue box cover.

5 - Return combustion air inducer motor and secure with retained screws. It is recommended that the combustion air inducer gasket be replaced during reassembly.

6 - Clean combustion air inlet louvers on heat access panel using a small brush.

7 - Use a small brush to clean the combustion air inlet louvers on the heat access panel.

**Flue Passageway and Flue Box**

1 - Remove the combustion air inducer assembly as described in the Combustion Air Inducer subsection.

2 - Remove the flue box cover. Clean the flue box with a wire brush as required.

3 - Clean the tubes with a wire brush.

4 - Reassemble the unit. The flue box cover gasket and combustion air inducer gasket should also be replaced during reassembly.

## Service Reminder

Call a qualified service technician if the unit is inoperative. Before calling, always check the following to be sure service is required:

1 - Be sure electrical disconnect switches are **ON**.

2 - Check room thermostat for proper setting.

3 - Replace any blown fuses or reset circuit breakers.

4 - Gas valve should be **ON**.

5 - Air filters should not be plugged, limiting air flow.

6 - Make sure all access panels are in place.

## Repair Parts Listing

When ordering repair parts, include the complete model number and serial number listed on the ETL/CSA rating plate - e.g. SGH120H4BH1Y.

**Gas Heat Section Parts**

Heat Exchanger
Combustion Air Assembly
Combustion Air Proving Switch
Burner Assembly
Burner Manifold Assembly
Main Burner Orifices
Flame Roll-out Switches
Auxiliary Limit Controls
Ignition Electrode Assembly
Ignition Lead
Ignition Sensor Assembly
Sensor Lead
Combination Gas Valve
Limit Controls

**Cooling Parts**

Compressors
Condenser Fan Motors
Condenser Fan Blades
Condenser Fan Run Capacitors
Freezestats
Condenser Fan Mounting Bracket
Fan Grille
Indoor Blower Motors
Blower Wheel
Expansion Valve
Distributor
Exhaust Fans (Opt.)

**Electrical Control Parts**

Unit Controller
Compressor Contactors
Circuit Breakers (Opt.)
Transformer (Control)
Transformer (Contactor)
Blower Contactor
Limit, Blower Relay
Heat Relays
Condenser Fan Relays
Capacitor CAB
Relay CAB
Disconnect Switch (Opt.)