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## EG 40 B Vented

By SHERWOOD INDUSTRIES LTD.

# OWNERS MANUAL



Warnock Hersey



### WHAT TO DO IF YOU SMELL GAS

- Open windows
- 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

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

### FOR YOUR SAFETY

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

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## SAFETY PRECAUTIONS

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### FOR SAFE INSTALLATION AND OPERATION OF YOUR "ENVIROGAS" STOVE, PLEASE, CAREFULLY READ THE FOLLOWING INFORMATION:

#### GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at once least annually by a qualified service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.
- Due to high temperatures, the appliance should be located out of high traffic areas and away from furniture and draperies. Children and adults should be alerted to hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.
- Young children should be carefully supervised when they are in the same room as the appliance.
- Clothing or other flammable material should not be placed on or near the appliance.
- All "ENVIROGAS" gas-fired appliances must be installed in accordance with these instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to commencing the installation.

**NOTE** Failure to follow these instructions could cause a malfunction of the fireplace, which could result in death, serious bodily injury, and/or property damage.

- Failure to follow these instructions may also void your fire insurance and/or warranty.

#### FOR YOUR SAFETY:

- Installation and service must be performed by a qualified installer, service agency or the gas supplier.
- Installation must conform to local codes or, in the absence of local codes with the current CAN 1-B 149 installation code in Canada or the current National Fuel Gas Code ANSI Z223.1 in the USA.
- To prevent injuries do not allow anyone who is unfamiliar with the operation to use the stove.

- **Always keep the appliance area clear and free of combustible materials, gasoline and other flammable vapors and liquids.**
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings or decorations.
- Due to the paint curing on the stove a faint odor and slight smoking will likely be noticed when the stove is first used. Open a window until the slight smoking stops. Always connect this gas stove to a chimney and vent to the outside of the building envelope. Never vent to another room or inside a building. Make sure you use the vent pipe that is specified. Make sure that the vent is properly sized and is of adequate height to provide the proper draft. Inspect the venting system annually for blockage and any signs of deterioration.

**WARNING: Do not operate with cracked or broken glass. Under no circumstances should this appliance be modified. Parts that have to be removed for servicing must be replaced prior to operating this appliance. Only parts supplied by Envirogas should be used in this appliance and replacement should only be performed by a licensed or qualified service person.**

- Never use solid fuels such as wood, paper, cardboard, coal, or any other flammable liquids etc., in this appliance.
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control, which has been under water.
- Do not abuse glass by striking or slamming door shut.

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## CODE APPROVALS

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- This Vented appliance draws all of its combustion air from the dwelling and must be vented using listed B or L vent. May also be vented through a conventional chimney using a chimney liner kit.

These appliances have been tested by Intertek Testing Services and found to comply with the established standards for a GAS FIRED VENTED ROOM HEATERS in CANADA and the USA as follows:-

**LISTED GAS FIRED VENTED ROOM HEATER ( EG 40 BV. Nat. & LPG. )**  
TESTED TO: ANSI Z21.11.1b-1995 GAS FIRED ROOM HEATERS. ANSI Z21.50-1996/CGA-2.22-M96,  
VENTED GAS FIREPLACES. CAN 1-2.1-M86 GAS FIRED VENTED ROOM HEATERS.

### **SPECS:**

#### **ENVIROGAS EG 40 B VENT UNITS;**

- have all been certified for use with either natural or propane gases. (see control panel and rating label.)
- are not for use with solid fuels.
- must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- are approved for bedroom or bed sitting room.
  - (IN CANADA: must be installed with a listed wall thermostat)
  - (IN USA: see current ANSI Z223.1 for installation instructions.)
- must be installed in accordance with local codes if any. If none exist, use current installation code CAN/CGA b149 in Canada or ANSI Z223.1 / NFPA 54 in the USA.
- must be properly connected to an approved venting system.
- are approved for installation on combustible materials.
- are not approved for closet or recessed installations.

#### **FOR INSTALLATIONS ABOVE 2000 FEET (610 m).**

In Canada these appliances must have the input de-rated by 10% as per the gas code.

In the USA these appliances must have the inputs de-rated by 4% for every 1000 feet (305m) above sea level.

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## ASSEMBLY INSTRUCTIONS

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- Remove the packaging from the appliance. Check to make sure there is no damage. If damage is found, please report it to both the carrier and your dealer as soon as possible.
- Before beginning carefully inspect the door, glass and the log set for damage.
- Do not use door and glass if the glass is damaged or broken.

# DECIDING WHERE TO LOCATE YOUR STOVE

## DIMENSIONS:

Front Width: 25"/ 63 cm  
Rear Width: 25"/ 63 cm  
Height: 29"/ 74 cm\*  
Depth: 21"/ 53 cm  
(\*not including vent coupling)

Shipping Weight: 256 lbs/116 kg

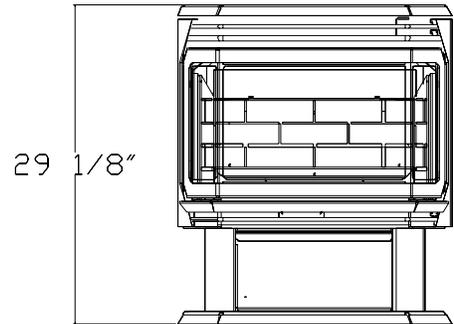


FIG. 1

## CLEARANCES:

A. Side wall to stove	12"/ 30cm
B. Rear wall to stove	4"/ 10cm
C. Combustible to stove Top	36"/ 91cm
D. Floor to stove	0"/ 0cm
E. Corner clearance	2"/ 5cm
F. Alcove depth	48"/ 122cm

**Maintain sufficient clearances  
for service and maintenance**

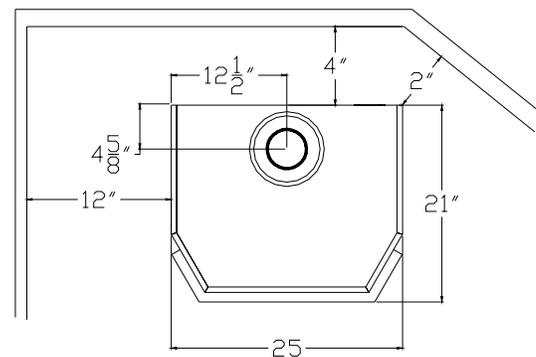
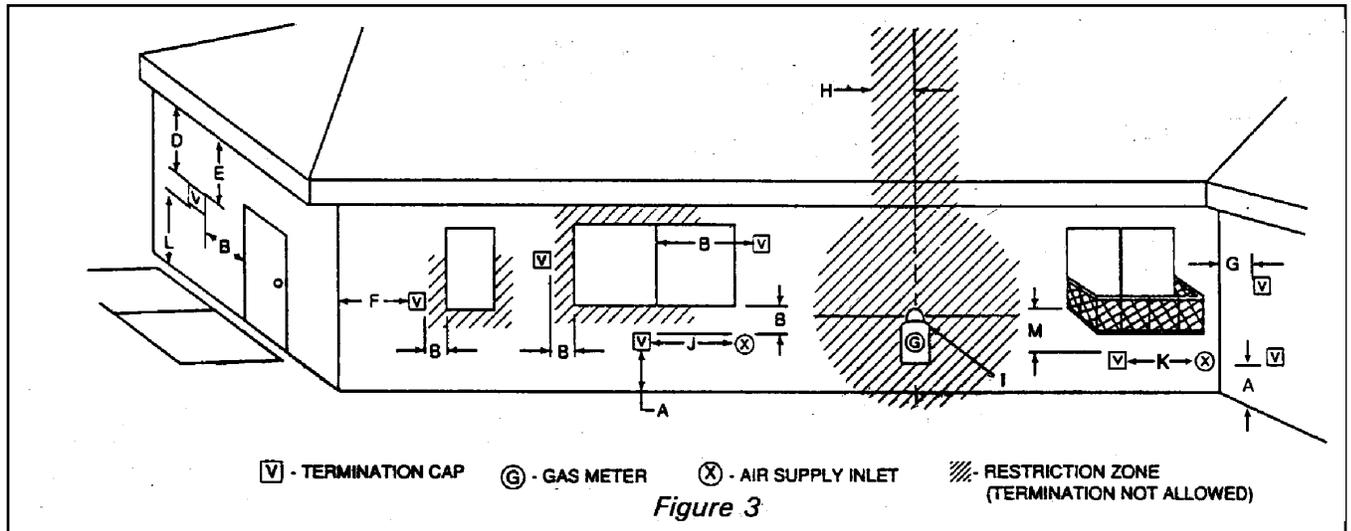


FIG. 2

- The stove should be located out of traffic and away from furniture and draperies.
- The stove should have sufficient access for its safe operation and maintenance.
- Locate a position where the flue system of the stove can be properly installed without damaging the integrity of the building. e.g. cutting a wall or ceiling joist.
- The stove can be installed on any standard flooring materials. i.e. Wood, carpet or linoleum.
- Check stove and flue system clearance requirements.
- Locate the stove where it can be accessed by a gas supply line.
- Locate the stove in a large and open room that is centrally located in the house. This will optimize heat circulation and comfort.
- As the stove is equipped with a convection fan, ensure that an electrical outlet is within 6ft. (1.8m) of the stove.
- These stoves can be installed in bedrooms.  
(IN CANADA: must be installed with a listed wall thermostat)  
(IN USA: see current ANSI Z223.1 for installation instructions.)
- The flow of combustion and ventilation air must not be obstructed.

## VENT TERMINAL CLEARANCES



- A= Clearance above grade, verandah, porch, deck, or [balcony (\*12 inches (30cm) minimum)]
- B= Clearance to window or door that may be opened [\*12 inches (30cm) minimum]
- C= Clearance to permanently closed window [minimum 12 inches (30cm) recommended to prevent condensation on window]
- D= Vertical clearance to ventilated soffit located above the terminal within a horizontal distance of 2 feet (60cm) from the center-line of the terminal 24 inches (60cm) minimum
- E= Clearance to unventilated soffit [18 inches (45cm) minimum]
- F= Clearance to outside corner [12 inches minimum]
- G= Clearance to inside corner [12 inches minimum]

- H= \*Not to be installed above a meter/regulator assembly within 3 feet (90cm) horizontally from the center-line of the regulator
- I= Clearance to service regulator vent outlet [\*6 feet (1.8m) minimum]
- J= Clearance to non-mechanical air supply inlet to building or the combustion air inlet to any other appliance [12 inches (30cm) minimum]
- K= Clearance to a mechanical air supply inlet [\*6 feet (1.8m) minimum]
- L= \*\*\* Clearance above paved side-walk or paved driveway located on public property [\*7 feet (2.1m) minimum]
- M= Clearance under verandah, porch, deck, or balcony [\*24 inches (60cm) minimum \*\*]

\*\*\* A vent shall not terminate directly above a sidewalk or paved driveway, which is located between two single family dwellings and serves both dwellings.

\*\* Only permitted if verandah, porch, deck, or balcony, is fully open on a minimum of 2 sides beneath the floor

- As specified in CGA B149 Installation Codes (1991) Note: Local Codes or Regulations may require different clearances

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## VENTING

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This model must have a vent opening in the rear of the unit. Confirm this and also check that the label on the right side panel door states "Vented Room Heater".

**WARNING:** THIS APPLIANCE HAS BEEN DESIGNED TO OPERATE BY DRAWING COMBUSTION AIR AND DILUTION AIR FROM THE ROOM. THE DRAFT HOOD LOCATED IN THE SAME ATMOSPHERIC PRESSURE ZONE AS THE COMBUSTION AIR INLET TO THE APPLIANCE. IT IS ALSO DESIGNED TO DRAW ROOM AIR FOR PROPER HEAT CIRCULATION FROM THE REAR OF THE UNIT. BLOCKING OR MODIFYING THE LOUVERS IN ANY WAY CAN CREATE HAZARDOUS SITUATIONS, EITHER THROUGH POOR VENTING OR BY OVERHEATING. IT IS IMPORTANT THAT THIS UNIT HAS SUFFICIENT AIR CIRCULATION FOR PROPER VENTING AND COMBUSTION THUS PROVISIONS MUST BE MADE FOR THE SUPPLY OF ADEQUATE COMBUSTION AND VENTILATION AIR.

**WARNING:** Operation of this heater when not connected to a properly installed and maintained venting system or tampering with the vent safety shutoff system can result in carbon monoxide (CO) poisoning and possible death.

THE APPLIANCE CAN NOT BE CONNECTED TO A CHIMNEY FLUE SERVICING A SEPARATE SOLID FUEL BURNING APPLIANCE.

### **FLUE GAS SPILL SWITCH**

NOTE: THIS HEATER MUST BE PROPERLY CONNECTED TO A VENTING SYSTEM. THIS HEATER IS EQUIPPED WITH A VENT SAFETY SHUTOFF SYSTEM DESIGNED TO PROTECT AGAINST IMPROPER VENTING OF COMBUSTION PRODUCTS. THIS SAFETY SWITCH IS LOCATED ON THE REAR OF THE APPLIANCE CLOSE TO THE DRAFT HOOD RELIEF OPENING.

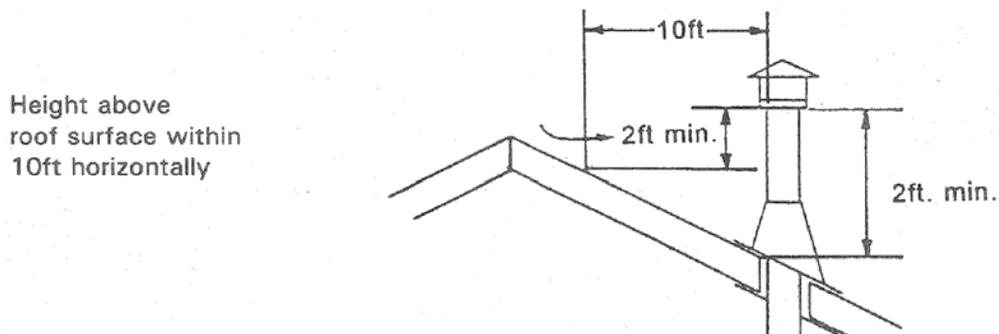
IF THE SWITCH TRIPS MORE THAN ONCE, THE CHIMNEY SHOULD BE INSPECTED BY A QUALIFIED SERVICE TECHNICIAN FOR POSSIBLE BLOCKAGE OR SEVERE DOWN DRAUGHT CONDITIONS

This stove should be vented by certified 4" Type B Gas Vent or a flexible gas vent liner which may be encased in 6" decorative stove pipe. The flue collar of the appliance will fit inside of standard vent and may be fastened directly to the vent.

The ENVIROGAS incorporates its own internal draft hood, so no additional external draft hood is required.

Check periodically that the vent is unrestricted and an adequate draft is present when the unit is in operation.

The venting system should be assembled and installed according to the vent manufacturer's instructions and the local, state/provincial or national codes. Two basic venting configurations are shown as rough guidelines only. Follow national and local codes for other installation options.



## A. USING AN EXISTING CHIMNEY

- Measure the height of the chimney beforehand and purchase the appropriate kit. Never attempt to over stretch a flexible liner to accommodate the height of the chimney.
- Any flue damper must be removed or locked permanently in the open position.
- The chimney must be clean, in good working order and constructed out of non-combustible materials.
- Make sure that all chimney clean-outs are tightly fitting and will not permit air to leak into the chimney.
- Make all gas connections and check for leaks.

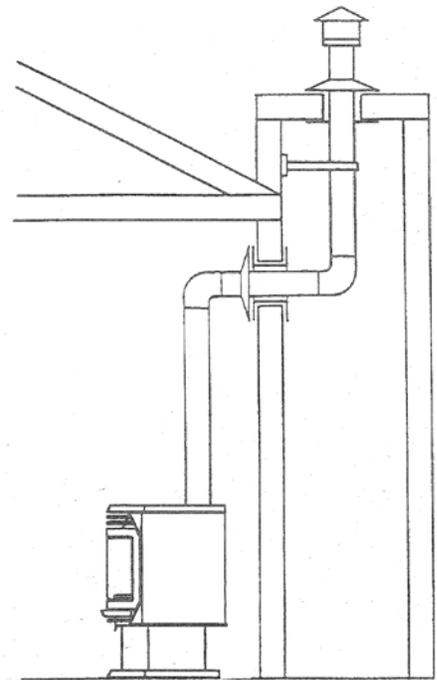
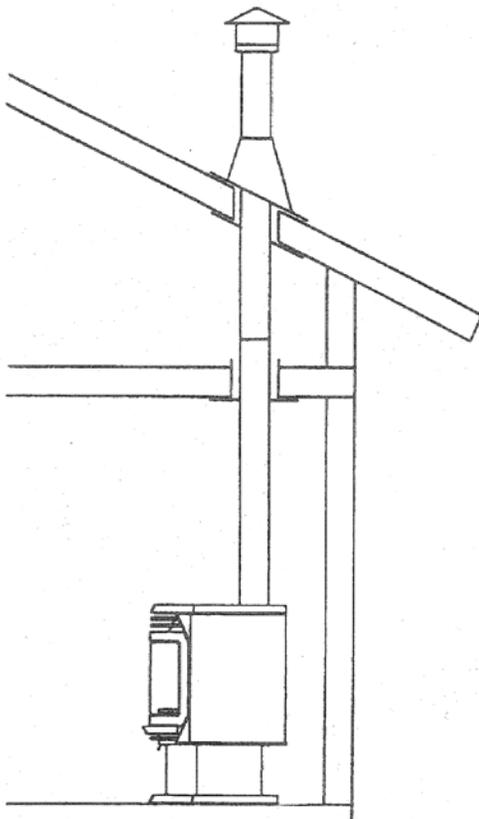
See vent manufacturer's instructions for vent system clearances to combustibles and vent terminal clearance from roof.

## MANUFACTURERS GENERAL VENTING GUIDELINES

This information is compiled by the manufacturer as a very general rule for single appliance venting of the EG95 gas stove with 4" Type B gas vent.

Venting code and regulations may vary from area to area, please check with the local, state/provincial codes regarding the suitability of your application.

For other special venting requirements, please refer to the local, state/provincial or national codes.



For best venting performance, we recommend total vent height of 10 ft (3m) to 30 ft (9m). Total horizontal length depends on the number of elbows used. The venting

Should never slope down. 1/4" rise per 2' horizontal is recommended.

If practical, it is best to locate the appliance to permit the use of shorter horizontals and fewer elbows.

-Two 90° elbow, maximum total horizontal length of 20 ft (6m).

-Three 90° elbow, maximum total horizontal length of 13 ft (3.8m).

-Four 90° elbow, maximum total horizontal length of 6 ft (1.9m).

-Five 90° elbow, maximum total horizontal length of 0 ft (0m).

If 45° elbows are used, one 90° elbow is equivalent to two 45° elbows.

Venting rise should be a minimum of 1 ft (.31m) from the top of the unit before any horizontal run.

The bottom of the vent cap shall extend at least 2 ft (.6m) above the highest point of the roof where it passes through and at least 2 ft (.6m) higher than any portion of the roof within a horizontal distance of 10 ft (3m).

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# INSTALLATION OF LOG SET and EMBERS

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## INSTALLING THE GLOWING EMBERS

A bag of ceramic fiber embers is provided for use on the front burner ember tray.

**CAUTION:** Use only the type of ember material supplied with this appliance. Due to the irregular size of the ember material there may be more than required. Use only a single layer. Do not pile embers. The use of other foreign materials on the burners may create dangerous conditions.

If over time, through cleaning and servicing, these embers require replacement, contact your nearest ENVIROGAS dealer for replacement embers.

Gently remove the ember material from the plastic bag. Spreading pieces evenly across the front and rear of the ember tray.

Do not pack down, leave embers loose.

**DO NOT PLACE EMBERS ON THE REAR BURNER.**

**CAUTION: NEVER OPERATE THIS APPLIANCE WITH THE DOOR REMOVED**

## INSTALLING THE LOG SET

Carefully remove log from box. Check to ensure there is no damage. It is very important to install this log in its proper position to insure safe, optimum operating conditions.

1. Open the front door.
2. Place the log set all the way into the back of the firebox resting on the log supports.
3. Close the door and tighten securely.



Upon the first light up, watch for ignition to **all** burner ports. If a long delay is noted:

- a) First, wait for the appliance to cool down
- b) Open the front door of the appliance.
- c) Check to carefully reposition the embers making sure that burner ports are not plugged solid or blocked.

(See adjusting the venturi section to adjust air for proper flame).

# OPERATING INSTRUCTIONS

## FOR YOUR SAFETY READ BEFORE OPERATING

**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 is equipped with a pilot, which must be lit by hand by following these instructions exactly.
- B) BEFORE LIGHTING smell all around the appliance area for gas, and 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 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.

- 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 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.
2. Turn off all electrical power to the appliance.

3. Turn the gas control knob clockwise to the "off" position. 
4. Open door. **Wait five (5) minutes to clear out any gas.** Close door. If you smell gas including near the floor, **STOP!** Follow "B" in the above safety information.

If you don't smell gas go to next step.

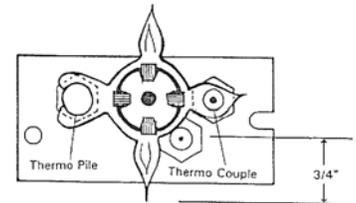
5. Find the pilot located to the right between the front and rear burner.
6. Turn gas control knob counter-clockwise to "PILOT". 
7. Push the gas control knob in fully and hold. Immediately light the pilot by pushing the piezo spark igniter. Keep knob depressed for about 30 seconds after pilot is lit. Release knob. If pilot goes out, repeat steps 4 through 6.

**WARNING** The gas valve has a lockout device, which will not allow the pilot burner to be re-lit until the thermocouple, has cooled.

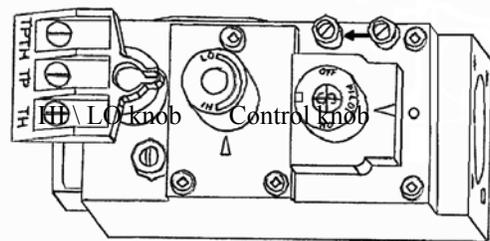
If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.

**NOTE: Check to be sure the pilot flame engulfs the thermocouple** and that the burners light completely.

If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call you service technician or gas supplier.



8. Turn gas control knob counter-clockwise to the "ON" position.   
Flip burner



er switch to "ON" then turn "HI / LO" knob to the desired setting.

9. Turn on all electrical power to the unit

## TO TURN OFF GAS TO

1. Turn the gas control knob clockwise to "OFF" DO NOT FORCE 

## APPLIANCE

2. Turn off all electrical power to the appliance if service is to be performed.
3. Flip burner switch to off.

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## MAINTENANCE AND TECHNICAL

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### **Annually check to ensure that your Vent system is clear.**

Periodically check the pilot and burner. Check to see that all the burner ports are clean and clear. Check the pilot head for blockage. Check to ensure the pilot flame is blue with small yellow tips.

### **CLEANING OF GLASS**

#### **Do not clean glass when hot**

It will be necessary to clean the ceramic glass periodically. During a cold start up, condensation will sometimes form on the glass, this is a normal condition with all gas fireplaces and stoves. However, this condensation can allow dust and lint to cling to the glass surface. Initial paint curing of the appliance can leave behind a slight film on the glass. This is a temporary problem. It is therefore recommended that the glass be cleaned initially after about the first two weeks of use.

After that, depending upon the amount of use, cleaning should be required no more than two or three times per season.

To clean the door, use a mild glass cleaner and a soft cloth. Abrasive cleaners will damage the glass and gold surfaces.

### **OPENING THE DOOR**

Turn unit off and wait until the appliance has cooled down.

1. Open the right hand hinged side flap, which will expose a door fastener. Using a 1/2" wrench, loosen the fastener.
2. Due to the shape of the bay window door. You must also open the left-hand side flap before attempting to open the door.
3. Ensure the door is properly fastened after cleaning before attempting to re-light the appliance.

### **TO REPLACE DOOR AND GLASS ASSEMBLY**

The glass in this appliance is an integral part of the door assembly. If the glass is damaged or broken a replacement door assembly including glass must be fitted.

### **To Replace:**

- open door fully
- Lift door vertically so that hinge pins lift out of hinge receivers.
- Return the door assembly to dealer.

**Door and glass assembly must be replaced as a complete unit by your ENVIROGAS Dealer.  
No substitute materials are allowed.**

**Use extreme caution cleaning up broken glass.  
Use thick gloves and broom to brush glass up.**

### **FOR CLEANING THE INSIDE OF THE FIREBOX**

Remove the log carefully from the firebox. Gently remove the embers and place on a piece of paper towel. Until ready to replace.

Vacuum the firebox thoroughly. Carefully clean off any dust on the logs and remove any lint from the main burner and pilot burner.

After carefully replacing the log and embers in their correct positions, and the door has been resealed, re-light the pilot, following the instructions on the attached label.

**CLEARANCES MUST BE SUFFICIENT TO ALLOW ACCESS FOR MAINTENANCE AND SERVICE**

## TROUBLE SHOOTING

Problem	Possible Cause	Solution
Spark will not light the pilot after repeated pressing of spark igniter	Defective piezo igniter	Check connections to igniter -If igniter connections are good but there is no spark-replace igniter
	Broken spark electrode	-Check for broken ceramic insulation replace, electrode if broken
	Miss-aligned spark electrode	-If spark is not arcing from the electrode to pilot- adjust by loosening screws on pilot base. Adjust and re-tighten
Pilot will not remain lit	Problem with thermocouple circuit	-Check for proper connection of thermocouple to rear of valve. If loose, tighten lightly -Check pilot for full flame impingement around thermocouple. If the pilot is too small - Check gas pressure, adjust pilot rate screw, check pilot head for blockage. -Check thermocouple voltage at valve- must be greater than 5 mV. If low, replace thermocouple.
	Air in gas line - (Pilot flame dies while knob is depressed.)	-Bleed line. -Check gas line pressure. -Contact dealer.
Burners will not remain lit	Problem with thermopile circuit	-Check gas line pressure. -Check for flame impingement on thermopile, if low see "Pilot will not stay lit" -check thermopile for a Minimum of 300 mV when burner switched on. -Check wiring to thermostat for breaks.
Flame lifting	Leak in vent pipe Improper vent configuration Terminal may be recirculating flue gases	-Check for leaks in vent connections -Check vent configuration with manual -Check to see if terminal is on correctly -May need to install high wind termination cap -Contact dealer.
Glass fogs up	Normal conditions - after the appliance warms up glass will clear ** Due to additives in gas, glass may get hazy during normal use** Clean when needed.	
Blue flames	Normal during start - flame will yellow the appliance heats up.	
Flames are burning "dirty" or Sooting	Flame impingement	-Check log position -Increase primary air by opening venturi shutters See also "Burners will not stay lit"
Flame goes out / comes on frequently during a short period of time	Improper placement of thermostatic bulb	Move bulb to cooler location

# GAS LINE CONNECTION

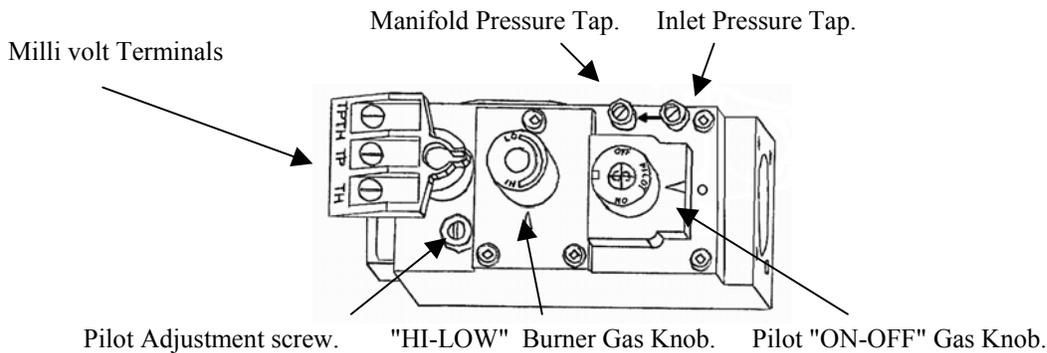
## ORIFICE SIZES, PRESSURE AND BTU'S

	<u>NATURAL GAS</u>	<u>PROPANE GAS</u>
<b>FRONT BURNER</b>	<b>#48 (1.93mm)</b>	<b>#55 (1.32mm)</b>
<b>REAR BURNER</b>	<b>#41 (2.49 mm)</b>	<b>#54 (1.40 mm)</b>
<b>Manifold pressure.</b>	<b>3.8" wc (.95 kPa)</b>	<b>11" wc (2.74 kPa)</b>
<b>Min. Manifold pressure.</b>	<b>1.1" wc (.27 kPa)</b>	<b>2.7" wc (.67 kPa)</b>
<b>Supply Pressure.</b>	<b>7.0" wc (1.74 kPa)</b>	<b>12" wc (2.98 kPa)</b>
<b>Min. Supply pressure.</b>	<b>5" wc (1.25 kPa)</b>	<b>11.5" wc (2.86 kPa)</b>
<b>Max. BTUH Input.</b>	<b>38,000 Btu/h (11.1 kW)</b>	<b>38,000 Btu/h (11.1 kW)</b>
<b>Min. BTUH Input.</b>	<b>20,000 Btu/h (5.9 kW)</b>	<b>20,000 Btu/h (5.9 kW)</b>
<b>Output fan off</b>	<b>27,800 Btu/h (8.14 kW)</b>	<b>28,900 Btu/h (8.46 kW)</b>
<b>Output fan on</b>	<b>29,400 Btu/h (8.6 kW)</b>	<b>30,300 Btu/h (8.86 kW)</b>

**WARNING:** Only persons licensed to work with gas piping may make the necessary gas connections to this appliance.

**NOTE:** The gas line connection may be made using 3/8" rigid tubing or an approved flex connector. Since some municipalities have additional local codes it is always best to consult your local authorities and the CAN/CGA-B149 (1 or 2) Installation Code. For USA gas installations follow either local codes or the current edition of the National Fuel Gas Code ANSI.Z223.1.

**UPON CONNECTION MARK APPROPRIATE FUEL TYPE ON WARNOCK HERSEY RATING LABEL LOCATED ON THE INSIDE OF THE RIGHT HAND SIDE PANEL.**



The appliance and its individual manual shutoff valves must be disconnected from the gas supply piping system during any pressure testing where the pressure exceeds 1/2 PSIG (3.45 kPa) or damage will occur to the valve.

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

When using copper or flex connectors use only fittings approved for gas connections.

**TO TEST**

The pressure taps are located in the top right corner on the valve face (right - inlet, left - manifold pressure).

- Turn set screw counter clockwise to loosen, 2 turns.
- Place 5/16" hose over pressure tap system.
- When finished, release pressure, remove hose & tighten set screw.

Always check for gas leaks with a soap and water solution after completing the required pressure test.

**NEVER USE AN OPEN FLAME FOR LEAK TESTING**

# ELECTRICAL

The **ENVIROGAS EG 40.FS.BV.** will operate with no external power supply. These models have a Milli volt gas control which uses the pilot flame to generate enough electricity to operate the main burner.

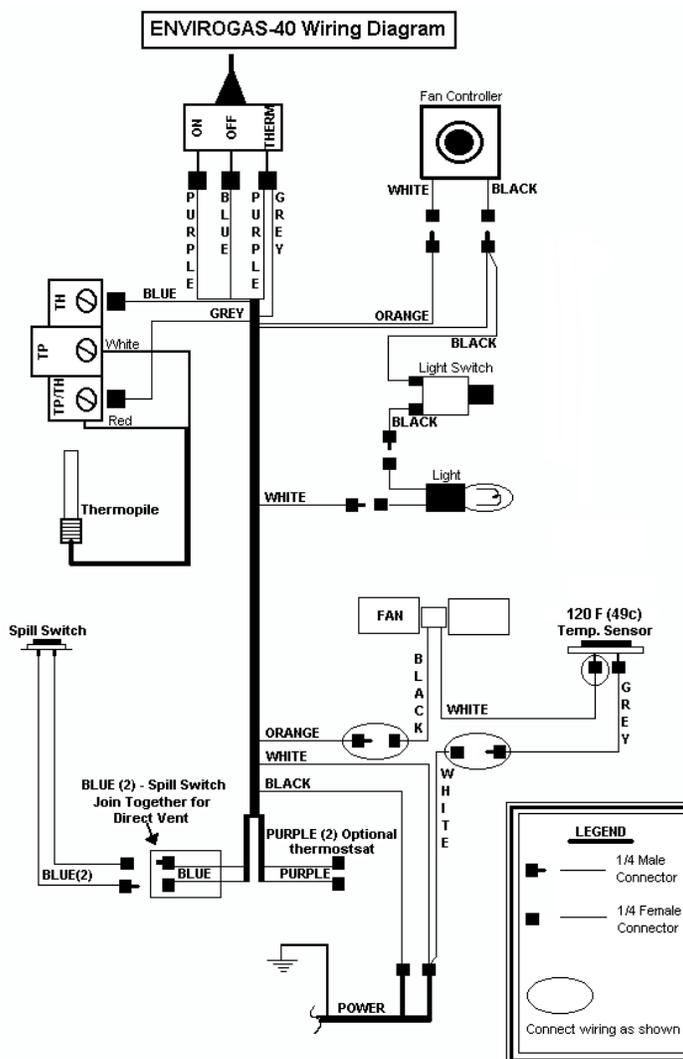
The appliance when installed, must be electrically connected and grounded in accordance with local codes or in the absence of local codes, with the current CSA C22.1 CANADIAN ELECTRICAL CODE. Part 1, SAFETY STANDARDS FOR ELECTRICAL INSTALLATIONS, or THE NATIONAL ELECTRICAL CODE ANSI / NFPA 70 in the USA.

**NOTE:**

- Operation of the fan increases the efficiency and the heat output of the appliance.
- The thermostat connects to the two purple wires in the harness
- Control panel light uses a 7w Max. bulb

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

**WARNING:** ELECTRICAL GROUNDING INSTRUCTIONS. This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard and should be plugged into a properly grounded three-prong receptacle. **DO NOT** cut or remove the grounding prong from the plug.



## INSTALLING REMOTE THERMOSTAT OR WALL SWITCH

**RECOMMENDED WIRE SIZE** for thermostat installation: 18 gauge, 2 wire solid core, Low Voltage wire. (Bell wire)

1. Install the 18 Gauge wire supplied to the two terminals on the thermostat or remote wall switch.
2. Connect the other end of the wire to the gas valve using the two outside terminals on the front of the gas valve. Use the terminals marked (TP/TH and TH).

### RECOMMENDED MAXIMUM LEAD LENGTH (TWO WIRE) WHEN USING WALL THERMOSTAT

WIRE SIZE	MAXIMUM LENGTH
14 GAUGE	100 FEET
16 GAUGE	64 FEET
18 GAUGE	40 FEET
20 GAUGE	18 FEET

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## PARTS AND ACCESSORIES

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### Service Parts available from your local Envirogas Dealer

Burner Control Assembly  
Natural Gas Pilot Assembly  
Propane Pilot Assembly  
Door Bolt  
Relief Door Gasket  
Regulating Valve  
Piezo Igniter  
Burner Switch  
B-vent Spill switch 220°  
Orifice Blank

Convection Blower  
Light Bulb Holder  
Light Switch (momentary)  
Fan Controller  
Log Set (with Embers)  
Thermocouple  
Embers  
Thermopile  
Door Gasket  
Convection Fan Sensor 120 F (49C)

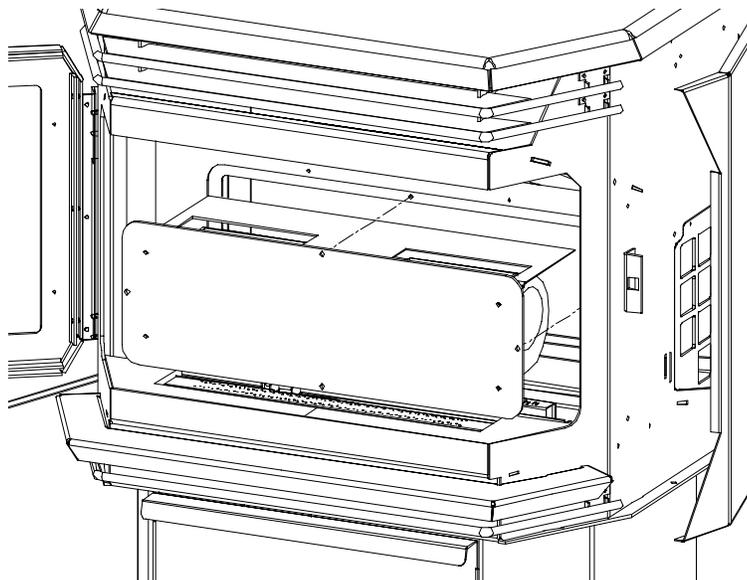
### Accessories

Gold trim Package  
Low Voltage Thermostat

### REMOVING or LUBRICATING THE BLOWER

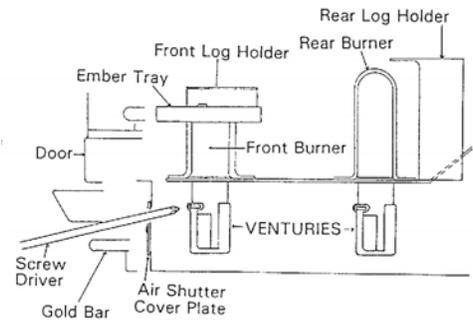
The blower should be lubricated every 12 mos.

1. Turn the unit off and remove the log set.
2. Remove the burner tray assembly by removing the screw on either side of the tray, between the front and rear burners. Lift the tray out. Remove the brick liner by undoing the screw on either side and sliding the panel out.
3. Remove the 4-5/16" bolts that hold the blower mounting plate to the back firewall. Use a light lubricating oil on screws before removal.
4. Carefully pull the blower assembly into the firebox, exposing the blower lubricating holes (located on the top of the motor housing on either side of the label). Add 2 drops of SAE 20 oil.



5. If removal of the blower is necessary, disconnect the blower leads from the harness. Remove the blower.
6. To re-install, check mounting plate gasket and reverse steps 1 through 4.

- There is a separate air shutter for each burner.
- Remove one screw from the cover plate located below the ash shelf. Loosen the other screw (do not remove) swing the cover plate out of the way and tighten screw down to hold it in place.
- With a long screwdriver rotate spring clips to open or close the shutter to the desired setting.
- **The burner flame should be a bright yellow/orange when hot. Excessive blue is too lean and dark orange with soot is too rich**



## FUEL TYPE CONVERSION

This is a guide to assist you in converting a ENVIROGAS EG-40 gas unit.

If after following our guide lines you cannot properly convert this unit please call our technical department for assistance.

Please read and follow these instructions. Also please read the instruction guide lines provided by S.I.T on how to remove and install the HI-LOW regulator.

**STEP 1.** Carefully inspect all parts supplied with this conversion kit.

**STEP 2.** Shut the gas off and disconnect the main gas line from the unit.

**STEP 3.** Open the door by unscrewing the 1/2" bolt on the right hand side of the stove. Lift door off the hinges mounted on the left hand side. Remove the two screws on the burner tray located between the front and rear burners.

**STEP 4.** Change the regulator on the front of the gas valve. (follow the instructions provided by S.I.T)

**STEP 5.** To change the pilot orifice: First. Remove the two (2) T-20 torx screws that hold the pilot assembly to the burner tray. Lift the pilot assembly from the burner tray. Using a 10mm wrench, disconnect the pilot line from the pilot assembly and remove the pilot injector. Re-install the pilot new pilot injector.

(BE CAREFUL WHEN TIGHTENING THE PILOT FITTING, YOU COULD BREAK THE CERAMIC IGNITER ELECTRODE).

DO NOT reuse the old pilot assembly gasket, install the new gasket that is supplied.

**STEP 6.** Re-install the pilot assembly in the reverse order of **STEP 5**.

**STEP 7.** Remove the two (2) main burner orifices using a 1/2" deep socket

**STEP 8.** Install the two (2) new orifices supplied, making sure that the orifices are in the correct location. Be sure to put a bead of pipe thread sealant or approved Teflon tape on the orifices before installing them into the burner assembly.

**STEP 9.** Re-install the burner assembly into the unit. Re-install the burner tray, log set and door assembly.

**STEP 10.** Re connect the gas line to the fireplace and do a leak check using a soap and water solution or an approved manner on the gas supply line and the pilot tubing.

**STEP 11.** Re-light the appliance to insure proper operation and proper flame appearance. Be sure to adjust the venturi setting to achieve an efficient flame in the fireplace.

**STEP 12.** MAKE SURE that the sticker provided by S.I.T is installed to signify that this valve has been converted to a different type of fuel. Also make sure that the rating plate has a conversion label to show that this unit has been converted to a different fuel type.

A VISUAL CHECK OF THE REGULATOR IS NECESSARY TO DETERMINE WHETHER OR NOT THE REGULATOR IS THE CORRECT PART. A 50% TURN DOWN REGULATOR WILL HAVE ONE OF THE CORNERS MISSING.

1 50% turn down HI-LOW Regulator w 3 Torx T-20 screws  
 1 T-20 tamper proof Torx screwdriver bit  
 1 pilot injector  
 2 Main orifices  
 1 Pilot assembly mounting gasket

	NATURAL GAS	PROPANE
Pilot Orifice.	0.51 mm	0.35 mm
Burner Orifice.	Front #48 Rear #41	Front #55 Rear #54
Venturi Settings	Front 1/8" Rear 3/16"	Front 3/16" Rear 1/2"

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## WARRANTY

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Sherwood Industries Ltd. offers a \*Lifetime Warranty on this gas product. The lifetime warranty covers the appliance for a period of seven years from the date of installation. This warranty applies only to the original owner in the original location

Covered under the lifetime warranty are Cabinet Sides, Tops, Pedestals, Surround Panels and Chassis and Heat Exchanger. These steel components are covered against manufacturer's defects for 5 years and labor for the first year and for parts only thereafter. (A) The following exclusions apply:- over-firing due to incorrect setup or tampering, damage caused by incorrect installation, usage or abuse. The unit must be properly installed by a qualified technician or installer, and must meet all local and national gas and building code requirements.

We also cover against manufacture defects under our lifetime warranty. The following components, Gold Plating, Log Set, Burners and Glass (A) The following exclusions apply: Gold plating- Damage caused by scratching, marring, chemicals, fingerprints, abrasive cleaners or discoloration with age. Glass- use of harsh or abrasive cleaners, striking the glass or surface contaminates. Logset- Damage caused by incorrect handling or misuse. Burners- damage caused by improper or continuous operation under incorrect conditions.

Sherwood Industries Ltd. offers a 2-year warranty on all the Electrical Components and Gas Components against manufacturing defects. Paint is covered against flaking. This offer includes parts and labor for 1 year and for parts only thereafter.

The paint on the Metal Brick Liner may peel. This is due to the extreme conditions applied to the paint and is no way covered under warranty.

Your dealer shall make all claims under this warranty in writing.

### **(A): TO A MAXIMUM OF SEVEN YEARS**

### **WHEN FILING A WARRANTY CLAIM PLEASE COMPLETE THE FOLLOWING INFORMATION ON AN OFFICIAL WARRANTY CLAIM FORM:**

#### **To the Dealer**

- Name, address and telephone number of purchaser and date of purchase.
- Date of installation. Name of installer and dealer. Serial number of the appliance. Nature of complaint, defects or malfunction, description and part # of any parts replaced.

#### **To the Distributor**

- Sign and verify that work and information are correct.

This warranty covers defects in materials and workmanship only if the product has been installed according to the manual's instructions. If the product is damaged or broken as a result of misuse or mishandling the warranty does not apply. The warranty does not cover removal and re-installation costs.

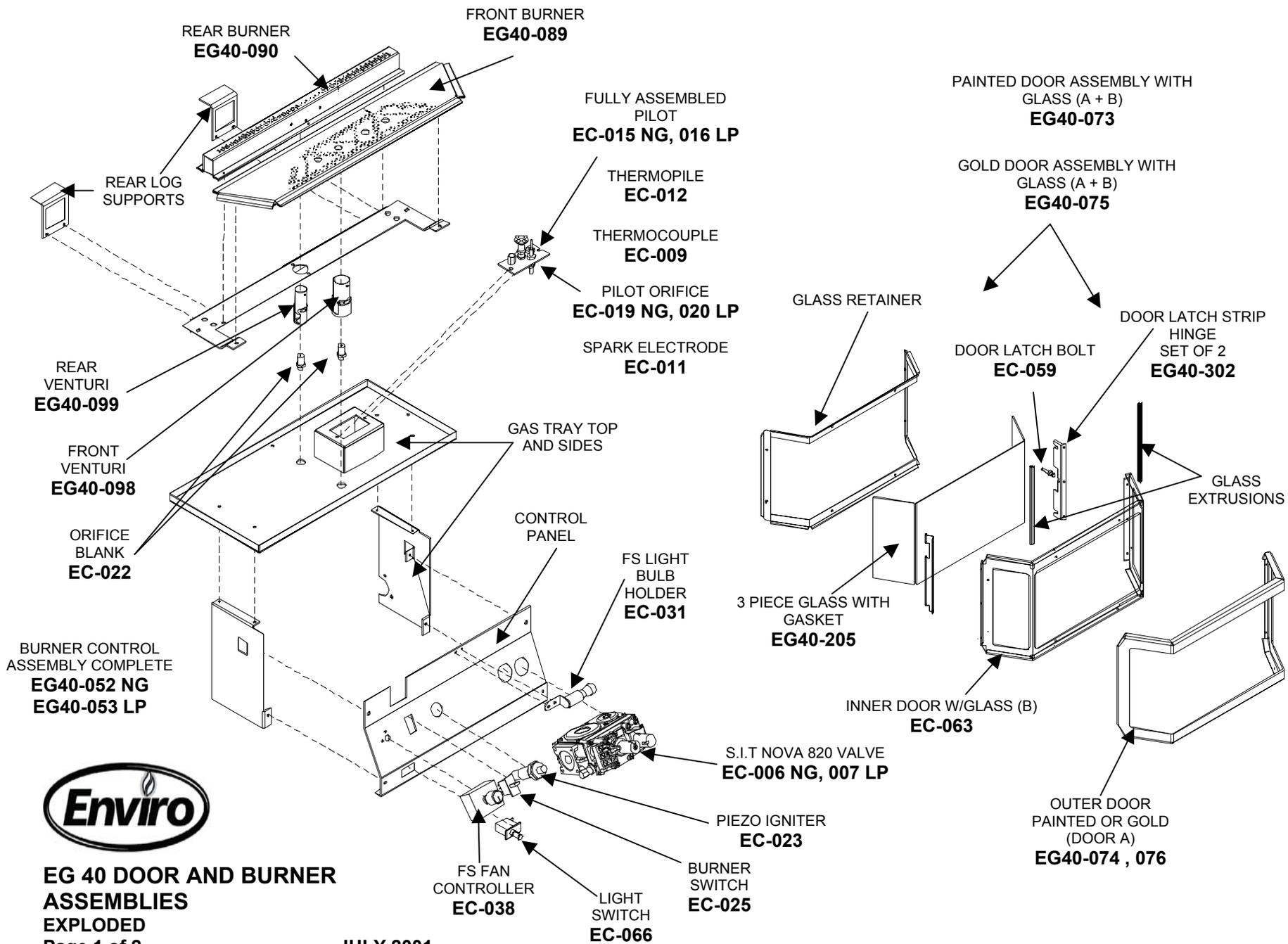
Sherwood Industries Ltd. reserves the right to repair or to replace the defective product. The shipping costs are to be paid by the consumer. All warranties by the manufacture are set forth herein and no claim shall be made against the manufacturer on any oral warranty or representation.

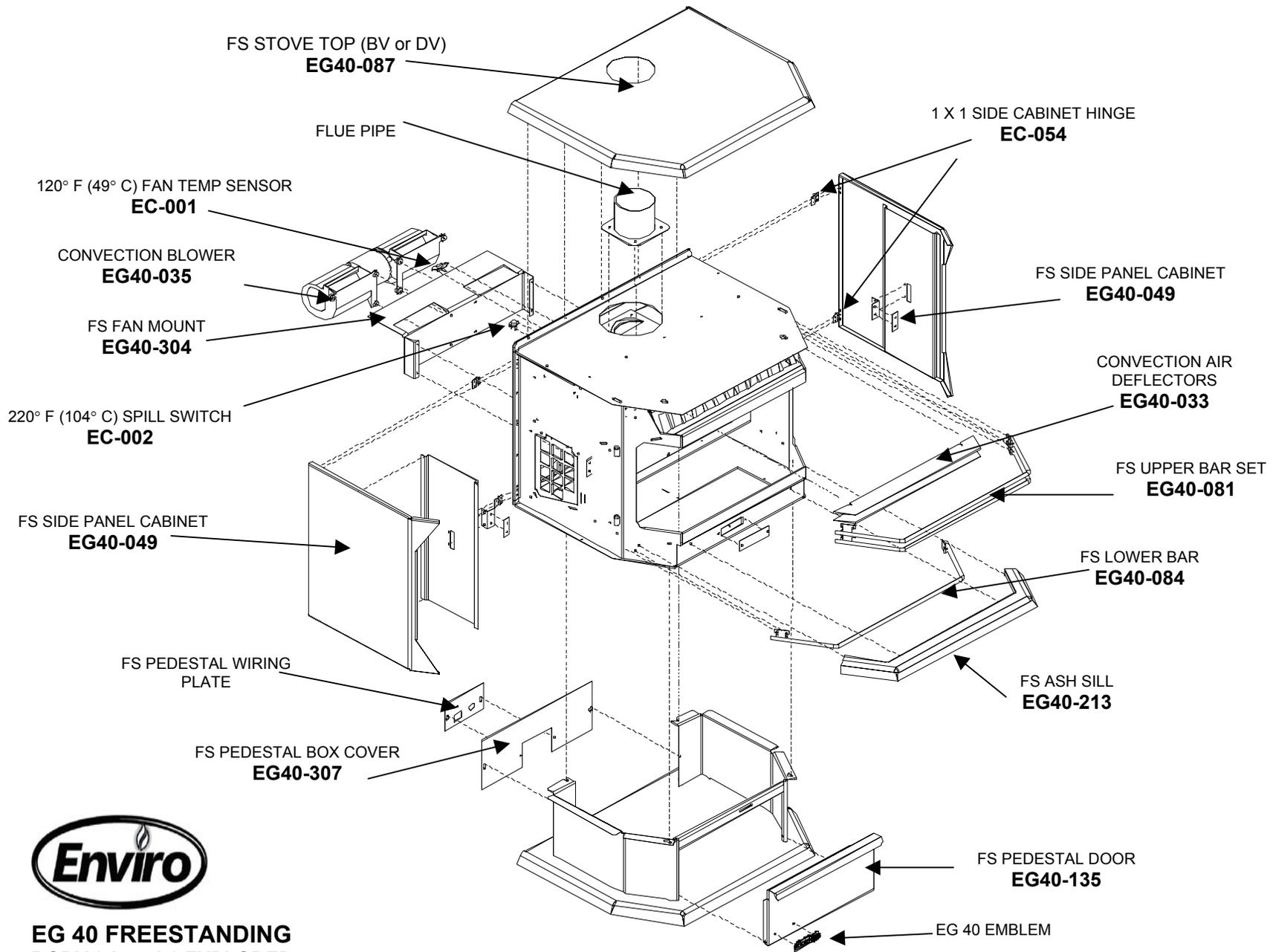
Sherwood Industries Ltd. and its employees or representatives will not assume any damages, either directly or indirectly caused by improper usage, operation, installation, servicing or maintenance of this appliance.

Sherwood Industries Ltd. reserves the right to make changes without notice. Please complete and mail the warranty registration card and have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.

## PARTS LIST

EC-001	120 °F CERAMIC TEMP SENSOR	EG40-081	UPPER GOLD BARS (SET of 2)
EC-003	300 °F CERAMIC SPILL SWITCH	EG40-084	FS LOWER GOLD BAR
EC-006	S.I.T. NOVA VALVE NG	EG40-086	FS SIDE PANEL
EC-007	S.I.T. NOVA VALVE LP	EG40-087	BV STOVE TOP
EC-008	THERMOCOUPLE POST (10,00)	EG40-088	FIREBOX BAFFLE
EC-011	SPARK ELECTRODE W/ IGNITER WIRE	EG40-091	STOVE TOP BAFFLE
EC-012	THERMOPILE	EG40-093	IEC POWER CORD OUTLET
EC-013	PILOT NG W/ELECTRODE	EG40-098	FRONT VENTURI
EC-014	PILOT LP W/ELECTRODE	EG40-099	REAR VENTURI
EC-015	FULLY ASSEMBLED PILOT NG	EG40-120	FS BURNER GASKET
EC-016	FULLY ASSEMBLED PILOT LP	EG40-122	FS PILOT TUBING AND FITTINGS
EC-019	PILOT ORIFICE NG	EG40-123	WINDOW CHANNEL TAPE 72"
EC-020	PILOT ORIFICE LP	EG40-129	STEEL BRICK LINER
EC-021	PILOT GASKET	EG40-135	FS PEDESTAL DOOR
EC-022	BLANK ORIFICE – FRONT	EG40-200	LP to NG CONVERSION KIT
EC-022A	BLANK ORIFICE – REAR	EG40-202	NG to LP CONVERSION KIT
EC-023	S.I.T. PIEZO IGNITER	EG40-205	3 Pc. GLASS W/GASKET
EC-024	S.S. FLEX CONNECTOR W/3/8" ELBOW 18" LONG	EG40-213	FS ASH SILL
EC-025	FS BURNER SWITCH	EG40-302	DOOR HINGE ( SET of 2)
EC-031	MINIATURE LIGHT BULB	EG40-304	FS FAN MOUNTING BRACKET
EC-032	LIGHT BULB HOLDER	30-014	FS BURNER NG CONTROL COMPLETE
EC-037	FS WIRING HARNESS	30-015	FS BURNER CONTROL LP COMPLETE
EC-038	FS FAN CONTROLLER	30-040	EG 40 RIGHT LOG
EC-040	FS FAN CONTROL KNOB	30-041	EG 40 LEFT LOG
EC-043	IEC POWER CORD	30-042	EG 40 REAR LOG
EC-045	EMBERS	30-043	PILOT LINE W/ BRASS FERALS
EC-053	TAPPED CORNER BRACKET	30-081	EG 40 LOG SET COMPLETE
EC-054	1 X 1 SIDE CABINET HINGE		
EC-056	FS PEDESTAL DOOR MAGNET		
EC-057	TADPOLE GASKET 3/8" X 3/8" X 8'		
EC-058	WINDOW CHANNEL TAPE		
EC-059	DOOR LATCH BOLT		
EC-060	SIMPSON DURA VENT ADAPTER		
EC-063	INNER DOOR W/GLASS (B)		
EC-066	FS LIGHT SWITCH		
EC-067	VENT RESTRICTOR RING		
EG40-023	LATCH BRACKET & NUT		
EG40-049	FS SIDE PANEL MAGNETS		
EG40-051	LOG SET AND EMBERS		
EG40-058	BURNER TRAY TOP		
EG40-061	16" IGNITER CABLE		
EG40-066	FAN ACCESS COVER GASKET		
EG40-071	OWNERS MANUAL		
EG40-073	PAINTED DOOR ASSEMBLY ( A / B)		
EG40-074	OUTER PAINTED DOOR (A)		
EG40-075	GOLD DORR ASSEMBLY ( A , B)		
EG40-076	OUTER GOLD DOOR (A)		
EG40-078	BEVELED PANEL -40" X 28"		
EG40-079	O/S BEVELED PANEL 46" X 33"		
EG40-080	FS PEDESTAL		





**EG 40 FREESTANDING  
 BODY (chassis) EXPLODED.**  
 Page 2 of 2

JULY 2001

# INSTALLATION DATA SHEET

The following information must be recorded by the installer for warranty purposes and future reference.

**Model: EG 40**

Name of Owner: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Name of Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

- Model : \_\_\_\_\_
- Serial Number: \_\_\_\_\_
- Date of Purchase: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- Date of Installation: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
- \_\_\_ Natural Gas (Nat.), \_\_\_ Propane (LPG)
- Inlet Gas Supply Pressure: \_\_\_\_\_ in.w.c.

If the orifices were changed by the installer.

- Front Burner Orifice # \_\_\_\_\_ ,  
Back Burner Orifice # \_\_\_\_\_ .
- Pilot Orifice # \_\_\_\_\_ or \_\_\_\_\_ in.Dia.

Installer's Signature

Name of Installer: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

E-MAIL ADDRESS ( [www.envirofire.biz](http://www.envirofire.biz) )

8/29/02

MANUFACTURED BY:

SHERWOOD INDUSTRIES, 6782 OLDFIELD RD., SAANICHTON, B.C., CANADA V8M 2A3