SHERWOOD INDUSTRIES IS AN ENVIRONMENTALLY RESPONSIBLE COMPANY. THIS MANUAL IS PRINTED ON RECYCLED PAPER.

PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Accent 20 BV

BY: SHERWOOD INDUSTRIES LTD

OWNER'S MANUAL



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

FOR YOUR SAFETY
Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Open windows/extinguish any open flame.**
- **Do not try to light any appliance.**
- **Do not touch any electrical switch or use any phone in your building.**
- **Immediately call your gas supplier from a neighbour'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.

Massachusetts installations (Warning): This product must be installed by a licensed plumber or gas fitter when installed within the Commonwealth of Massachusetts. Other Massachusetts code requirements: Flexible connector must not be longer than 36in, shut off valve must be a "T" handle gas cock; only direct vent sealed combustion products are approved for bedrooms/bathrooms; fireplace dampers must be removed or welded in the open position prior to the installation of a fireplace insert or gas log.

50-304

Safety Precautions

FOR SAFE INSTALLATION AND OPERATION OF YOUR "ENVIRO" HEATER, PLEASE CAREFULLY READ THE FOLLOWING INFORMATION:

- All ENVIRO gas-fired appliances must be installed in accordance with their 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.

GENERAL

- Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at 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 the 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 the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.

- Young children should be carefully supervised when in the same room as the appliance.
- Clothing or other flammable materials should not be placed on or near the appliance.

FOR YOUR SAFETY

- Installation and service must be performed by a qualified installer, service agency or gas supplier.
- This installation must conform to local codes or, in the absence of local codes, to the current CAN/CGA-B149 installation code (Canada) or National Fuel Gas Code ANSI Z223.1.2 (USA)
- To prevent injury, do not allow anyone who is unfamiliar with the stove to operate it.

- **To prevent injury, if the pilot or pilot and burners have gone out on their own, open the glass door and wait 5 minutes to air out before attempting to re-light the stove.**

- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapours.
- These appliances should not be used as a drying rack for clothing or for hanging Christmas stockings/ 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 smoking stops.

Always connect this gas stove to a vent system and vent to the outside of the building envelope. Never vent to another room or inside the building. Make sure the specified vent pipe is used, properly sized and of adequate height to provide sufficient draft. Inspect the venting system annually for blockage and signs of deterioration.

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

WARNING: Do not operate with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

- Never use solid fuels such as wood, paper, cardboard, coal, or any 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 or gas control systems that have been under water.
- Do not abuse the glass by striking it or slamming the door shut.

Table of Contents

Safety Precautions.....2
Table of Contents.....3
Codes And Approvals.....4
Specifications.....6
    Dimensions.....6
    Clearances to Combustibles.....6
    Rating Label Location.....6
Operating Instructions.....7
    Lighting Instructions.....7
Maintenance And Service.....8
    Routine Maintenance.....8
    Adjusting venturi air settings.....10
    Fuel Conversion.....11
Initial Installation.....12
    Preparation For Installation.....12
    Assembling And Installation Instructions.....12
    Venting.....13
    Venting Fireplace Inserts.....13
    Gas Line Connection.....14
    Electrical System.....15
    Removing and Installing The Blower.....15
Secondary Installation.....16
    Log Set and Ember Installation.....16
    Removing And Installing The Brick Panels.....18
    Cast Iron Surround Panel Extension Trim Kit.....19
Trouble Shooting.....20
Parts List - Cast.....21
Parts Diagram - Cast.....23
Parts List - Surround Panels.....24
Parts Diagram - Surround Panels.....25
Parts List - Components.....26
Parts Diagram - Components.....27
Warranty.....28
Installation Data Sheet.....29

Codes And Approvals

B VENT ONLY: This vent type is identified by the suffix BV. This appliance draws in room air for combustion and vent dilution air.

This appliance has been tested and approved for installations from 0 feet to 2000 feet (810 m) above sea level.

In the USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2000 (610 m) feet is to be reduced 4% for each 1000 feet (305 m) above sea level. Refer also to local authorities or codes which have jurisdiction in your area regarding the de-rate guidelines.

In Canada: When the appliance is installed at elevations above 4500 feet (1372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1000 feet (305 m).

- This appliance has been tested by INTERTEK (**Warnock Hersey**) and found to comply with the established VENTED GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (Accent 20 BV; NG/LPG)

TESTED TO: ANSI Z21.88a-2003/CSA 2.33a-2003 VENTED GAS FIREPLACE HEATERS

CAN/CGA 2.17-M91 GAS FIRED APPLIANCES FOR HIGH ALTITUDES

CSA P.4.1-02 TESTING METHOD FOR MEASURING ANNUAL FIREPLACE EFFICIENCY

This ENVIRO Accent 20 BV Fireplace:

- Has been certified for use with either natural or propane gases. (See rating label.)
- Is not for use with solid fuels.
- Is 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 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 and not connected to a chimney flue serving a separate solid-fuel burning appliance.

IMPORTANT NOTICE (Regarding first fire up): When the unit is turned on for the first time, it should be turned onto high without the fan on for the first 4 hours. This will cure the paint, logs, gasket material and other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn, turn the unit off including the pilot, let the unit get cold then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local ENVIRO dealer.

NATIONAL FIREPLACE INSTITUTE®

NFI

CERTIFIED

www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Codes And Approvals

NATURAL GAS

INPUT: 20,000 BTU/hr, (4.69KW) ORIFICE #45 DMS

PROPANE

INPUT: 20,000 BTU/hr, (4.98KW) ORIFICE #55 DMS

WARNING: For installation only in a solid fuel burning fireplace with a working flue and constructed of a non-combustible material using a chimney liner kit.

CONVERSION OF ZERO CLEARANCE FACTORY BUILT FIREPLACES:

The following instructions cover Sherwood Industries Ltd. policy for Gas-Fired Appliances (inserts) to be retro-fitted into existing factory built fireplaces with replacement parts removed.

GENERAL REQUIREMENTS:

Background:

A gas-fired insert is approved for use in an existing masonry or listed factory-built fireplaces without any alterations. If the factory or masonry fireplace is altered its warranty is void.

Recent practice in the field is to remove parts that do not require cutting, bending or breaking from the factory built fireplace in order to allow the insert to fit.

Sherwood Industries Ltd. Policy:

Intretek has approved listed factory-built fireplaces as a certified zero clearance kit, provided that the following conditions have been met:

1. The removal of any part will not weaken the stuctural integrity of the factory-built fireplace.
2. The factory-built fireplace is in good condition.
3. There are no alterations in the form of cutting, bending, or breaking any parts.
4. Firebricks may be removed.
5. A permanent label must be supplied with the insert, with instructions to affix it to the firebox of the factory-built fireplace. It will have wording to the effect:

WARNING - THIS FIREPLACE MUST ONLY BE OPERATED WITH A GAS INSERT ONLY - REMOVAL OF THE INSERT AND THE USE OF SOLID FUEL IS PROHIBITED AND MAY CAUSE A FIRE HAZARD.

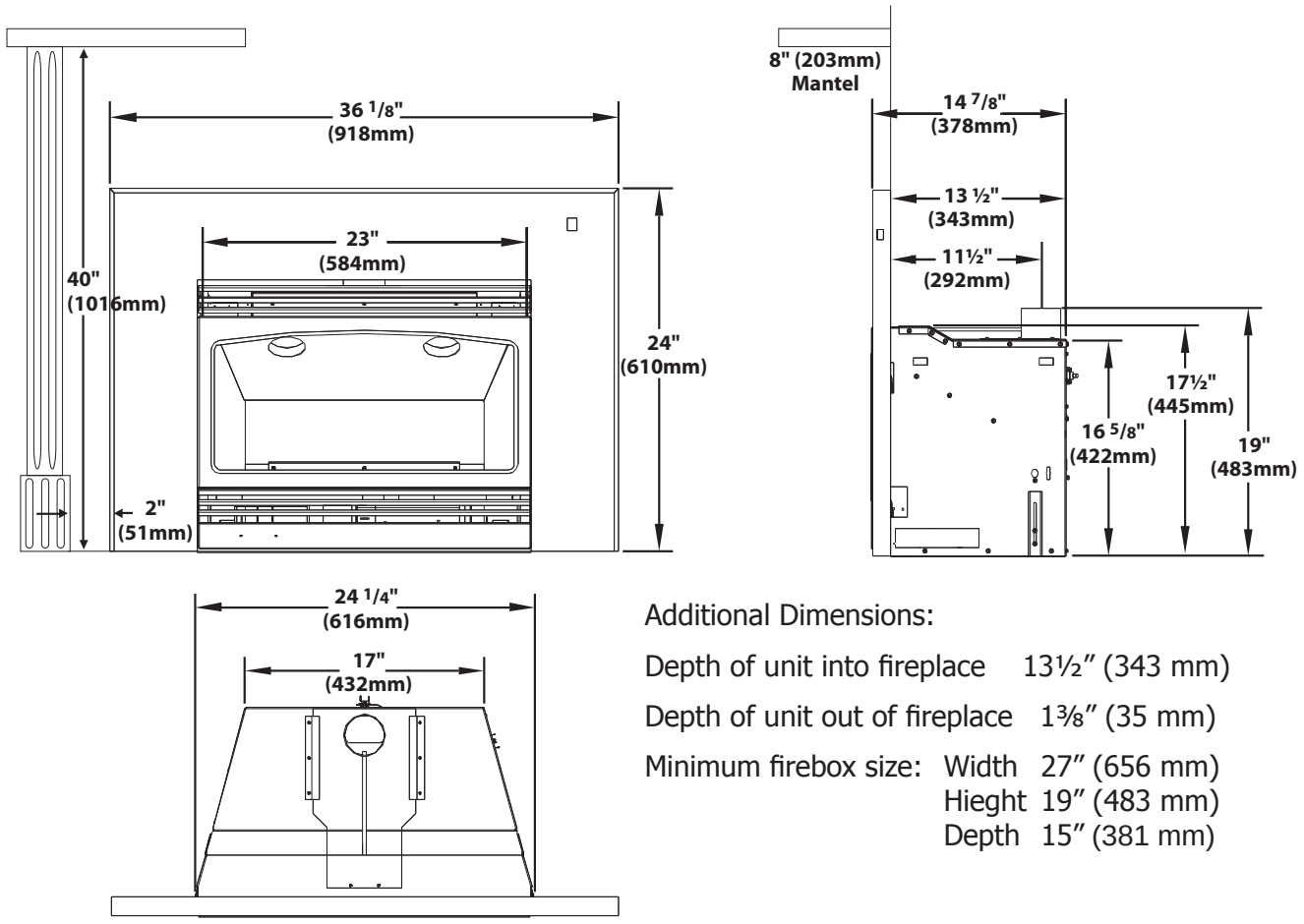
REPLACEMENT PARTS INCLUDE:
Fire bricks, smoke shield, flue damper, glass doors, and firescreens.

Specifications

WARNING:

Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.

DIMENSIONS:



Additional Dimensions:

Depth of unit into fireplace 13½" (343 mm)

Depth of unit out of fireplace 1⅜" (35 mm)

Minimum firebox size: Width 27" (656 mm)
Hieght 19" (483 mm)
Depth 15" (381 mm)

Figure 1. Accent 20 Dimensions.

CLEARANCES TO COMBUSTIBLES:

You must maintain sufficient clearances for operation, service and maintenance.

Mantle pillar to side of surround panel	2" (51 mm)
Bottom of unit to 8" wide mantle	40" (1016 mm)
Minimum non-combustible surface in front of unit	8" (203 mm)

CLEARANCES MUST BE SUFFICIENT TO ALLOW ACCESS FOR MAINTENANCE AND SERVICE

RATING LABEL LOCATION:

The rating label is located under the firebox and is attached to a rectangular metal sheet that is chained to the fireplace.

Operating Instructions

FOR YOUR SAFETY READ COMPLETELY BEFORE OPERATING.

LIGHTING INSTRUCTIONS:

FOR YOUR SAFETY READ BEFORE OPERATING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING YOU DO NOT 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.

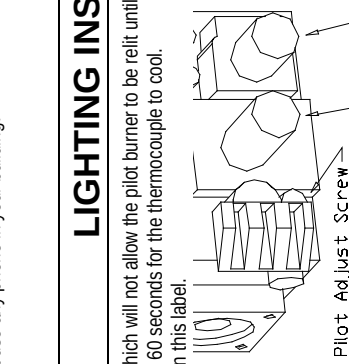
C) Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

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

WARNING: The gas valve has an lockout device which will not allow the pilot burner to be relit until the thermocouple has cooled. Allow approx. 60 seconds for the thermocouple to cool.

1. STOP! Read the safety information above on this label.
2. Turn the thermostat to the lowest setting
3. Turn off all electrical power to the appliance
4. Set the burner switch to the middle "off" position (located on the top-right side of the surround panel set).
5. Depress pilot gas knob slightly and turn clockwise ↷ to the "off" position.
6. Wait five (5) minutes to clear out any gas. 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.



7. Find pilot -located in between the front and rear burner.
8. Depress pilot knob slightly and turn counter-clockwise ↶ to "PILOT".
9. Push the pilot gas knob in fully and hold. Immediately light the pilot by pushing the push button piezo spark ignitor. Keep knob depressed for about 30 seconds after pilot is lit. Release Knob If pilot goes out, repeat steps 4 through 8.
   - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after several tries, turn the gas control knob to "OFF" and call your service technician or gas supplier.
10. Turn pilot gas knob counter-clockwise ↶ to the "on" position. Turn the burner switch to the "on" position(or "thermostat" position when equipped).
11. Turn gas "hi/lo" output knob and/or thermostat to the desired setting.
12. Turn on all electrical power to the unit.

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to lowest setting.
2. Turn off all electrical power to the appliance if service is to be performed.
3. Place burner switch in the "off" position.
4. Depress the pilot gas knob slightly and turn clockwise ↷ to "OFF". Do Not Force

Figure 2: Lighting Instruction Label.

Maintenance And Service

Routine Maintenance:

IMPORTANT NOTE REGARDING FIRST FIRE UP: When the unit is turned on for the first time, it should be turned onto high without the fan on for the first 4 hours. This will cure the paint, logs, gasket material and the other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn turn the unit off including the pilot, let the unit get cold then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local ENVIRO dealer.

Warning: Failure to position the parts in accordance with this manual, or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

At least once a year, run through the following procedures to ensure the system is clean and working properly. Depending upon the amount of use, cleaning should be required no more than two or three times per season.

Check the burner to see if all the ports are clear and clean. Check the pilot to make sure it is not blocked by anything. The pilot flame should be blue with little or no yellow on the tips.

The venting system must be periodically examined; it is recommended the examination is done by a qualified agency.

OPENING THE DOOR

1. Turn unit off and wait until the appliance has cooled down.
2. Open the lower louver panel.
3. Use a 5/16" socket to undo the two bolts at the bottom corners of the door.
4. Swing door out, then lift up and out to remove.
5. Ensure the door is properly fastened after cleaning before attempting to re-light the appliance.

CLEANING THE GLASS:

When the fireplace is cool, remove the face of the fireplace along with the glass. Check the gasket material on the back of the glass, making sure that it is attached and intact.

During a cold start up, condensation will sometimes form on the glass. This is a normal condition with all fireplaces. However, this condensation can allow dust and lint to cling to the glass surface. Initial paint curing of the appliance can leave a slight film on the glass, a temporary problem. The glass will need cleaning after the fireplace has gone through the first burn and about two weeks after first burn. **Use a mild glass cleaner and a soft cloth**. **Abrasive cleaners will damage the glass and plated surfaces.** Depending on the amount of use, the glass should require cleaning no more than two or three times a season. **Do not clean the glass when it is hot.**

Maintenance And Service

REPLACING THE DOOR GLASS:

The glass in the fireplace is a high temperature 5 mm ceramic. If the glass is damaged in any way, a factory replacement is required (see Parts List - Components). Wear gloves when handling damaged glass door assembly to prevent personal injury. When the glass door assembly is being transported, it must be wrapped in newsprint and tape and/or a strong plastic bag. Do not operate with the glass front removed, cracked or broken.

It is highly recommended that the removal and replacement of the glass from the door be done by a licensed or qualified service person.

To Replace:

1. Open the door and remove the glass carefully.
2. Install the new piece of glass with the large bulb in the gasket tape against the unit.
3. Place the tape joint in a bottom corner. Use high temperature silicone to ahere the tape to the door frame.
4. Close door.

The glass must be purchased from an ENVIRO dealer. No substitute materials are allowed.

CLEANING THE INSIDE OF THE FIREBOX:

1. Remove door.
2. Remove the logs carefully, as they are very fragile. Gently remove all the embers and rock wool and place on a paper towel.
3. Vacuum the bottom of the firebox thoroughly. Carefully clean any dust off the logs and brick panels and remove any lint from the burner and pilot. A clean 2" (5 cm) paint brush will work too. At this time, inspect the burner pan for cracking or severe warping. If a problem is suspected, contact the dealer.
4. Replace the logs and embers carefully as in the "Secondary Installation - Log Set and Ember Installation" section.
5. Reseal the door.
6. Re-light the pilot following the instructions on the attached label.

CLEANING PLATED SURFACES:

Painted faces should be wiped with a damp cloth periodically. If a plated face has been purchased, it should be unpacked/unwrapped carefully to avoid getting anything on the surface of the finish, including cleaners, polish and finger prints. It is important to note that fingerprints and other marks can leave a permanent stain on plated finishes. To avoid this, give the face a quick wipe with denatured alcohol on a soft cloth BEFORE lighting the fireplace. Never clean the face when it is hot. Do not use other cleaners as they may leave a residue, which can become permanently etched into the surface.

Maintenance And Service

REMOVING BURNER CONTROLS:

1. Shut off gas supply to appliance.
2. Remove surround panels by pulling up then out. Disconnect gas line from the valve. Disconnect harness at connector on side of unit.
3. Open the door and gently remove the logs. Remove the brick panel as per instructions in "Secondary Installation - Removing and Installing The Brick Panels".
4. Remove the burner tray assembly by removing the two screws in the center of the tray. Pull tray up from the left side, lift tray up and out towards the left.
5. Undo the three screws that hold the burner control tray onto the back firewall. Lift the control tray up on the left side and pull out. Remove wire connector from firebox.
6. Installation is the reverse. When installing the log set refer to "Secondary Installation - Log Set and Ember Installation".

Caution: Bleed lines before lighting and light pilot with door open.

ADJUSTING VENTURI AIR SETTINGS

- There is one venturi and one air shutter on this appliance. The venturi has been set for installation at sea level. Some adjustment may be required.
- To adjust for high altitude: open the lower louvers. Locate the venturi between the burner and control trays. Loosen the setscrews with a long screwdriver and rotate the air shutter until an efficient flame is achieved (refer to Figure 3).

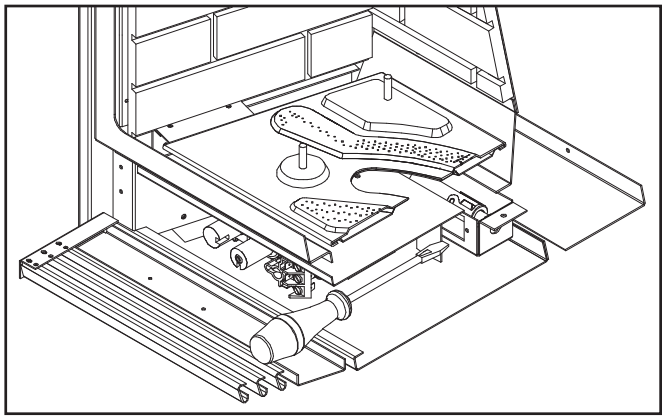


Figure 3. Venturi Adjustment

Maintenance And Service

QUALIFIED INSTALLERS ONLY

FUEL CONVERSION:

Warning: A qualified service technician, in accordance with the manufacturer's instructions as well as all applicable authority having jurisdiction, shall install this conversion kit. If the information in these instructions is not followed exactly, a fire, explosion or CO poisoning may result. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper or complete until the operation of the converted appliance is checked as specified in the owner's conversion kit.

Please read and follow these instructions. Also, please read the instruction guidelines provided by S.I.T. on how to remove and install the HI/LO regulator.

Step 1. Carefully inspect all parts supplied with this conversion kit.
Step 2. Shut the gas supply off at the shut-off valve.
Step 3. Remove the glass, refer to "Maintenance and Service - Routine Maintenance" section.
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, simply pull the pilot hood straight up to access the pilot injector. Using a 5/32 inch Allen key, remove the pilot injector.
Step 6. Install the new pilot injector supplied with this conversion kit. Simply screw the new injector inside the pilot hood and reinstall the hood by placing the hood on the assembly, line up the key way, and snap into place.
Step 7. Remove the main burner orifice with a ½ inch deep socket.
Step 8. Install the new orifice supplied. Be sure to put a bead of pipe-thread sealant or approved Teflon tape on the orifice before installing into the burner assembly.
Step 9. Reinstall the burner tray, log set, embers, and glass.
Step 10. Open shut-off valve at the gas line to the unit.
Step 11. Re-light the fireplace to ensure proper operation and proper flame appearance.
Step 12. MAKE SURE that the sticker provided by S.I.T. is installed, to signify that the valve has been converted to a different fuel type. Also, make sure that the rating plate has a conversion label to show this unit has been converted to a different fuel type.

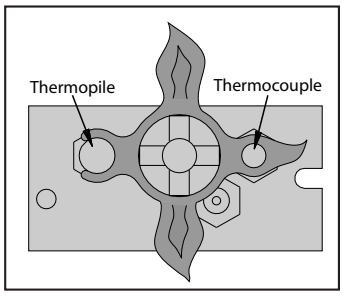


Figure 4: Pilot Burning.

A VISUAL CHECK OF THE REGULATOR KNOB IS NECESSARY TO DETERMINE WHETHER OR NOT THE REGULATOR IS THE CORRECT PART. A 50% TURN DOWN REGULATOR WILL HAVE ONLY ONE CORNER ON THE KNOB

Conversion Kits should contain the following:

1 50% turn down HI/LO regulator with 3 T-20 Torx screws
1 Pilot injector
1 Main orifice
Conversion instructions
Labels to show conversion

	NATURAL GAS	PROPANE GAS
Pilot Orifice:	.62mm.	35mm
Burner Orifice:	#45 DMS	#55 DMS
Venturi Settings:	1/16" open	3/8"open

Initial Installation

QUALIFIED INSTALLERS ONLY

Preparation For Installation:

• Remove the packaging from the appliance and surround panels, check to make sure there is no damage. Carefully check the glass door. **Do not use the unit if it is damaged.** In the event damage is found, please report it to your courier and/or your dealer as soon as possible.

• Carefully clean the fireplace and flue before installing the stove. Failure to do so may result in fumes or dirt being blown into the room and may cause a fire leading to serious injury or death.

Assembling And Installation Instructions:

1. Remove the unit from its box.
2. Open the door by first removing the cover with the nameplate attached (open valve door and pull nameplate cover side tab to release catch). Undo the two bolts at the bottom of the door. Lift the door up and out to remove. Caution: glass may separate from door.
3. Remove log and ember set and all wrapping material from the stove. Remove wrapping material from log and embers and check for any damage. If damage is observed, do not use unit and contact your local dealer.
4. Measure the distance from the front of the fireplace facing to the front of the flex liner in the chimney.
5. Remove the front exhaust locating screw. Slide the exhaust channel backwards from the unit. Properly secure the exhaust channel to the 3" flexible vent pipe liner previously installed in the chimney using Mil-Pac around the opening and three (3) evenly spaced sheet metal screws. Be careful not to over-stretch the liner.
6. Place the unit part way into the fireplace. Connect the fireplace insert's rigid gas line to the household gas supply using locally approved methods. Place the electric cable so it can be connected to the power supply. Adjust the leveling legs.
7. Slide the insert into the fireplace, ensuring that the exhaust channel is located under the slide rails on the top of the fireplace insert.
8. Re-install the locating screw and tighten.
9. To assemble the surround panel, lay the panel face down on a soft flat surface and place the brass trim on the surround panel, using the corner brackets to hold the trim to the surround panel.
10. Connect the surround panel wire harness terminal to the stove wire harness terminal on the right side panel.
11. Place the assembled surround panel around the fireplace then align the slots with the screw heads. Push back then down to engage the surround slots on the mounting screws. Make sure the top surround panel sits flat on the stove.

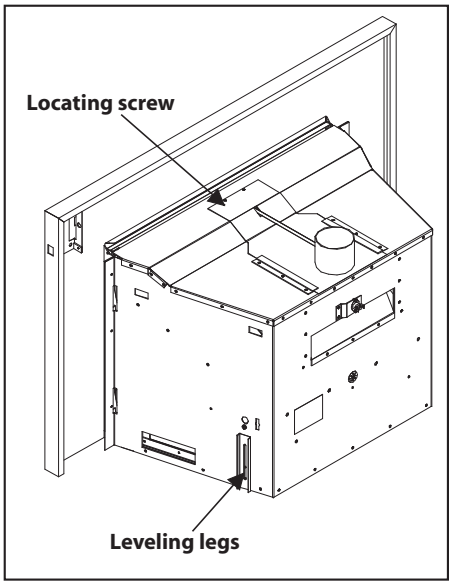


Figure 5. Preparation for Installation.

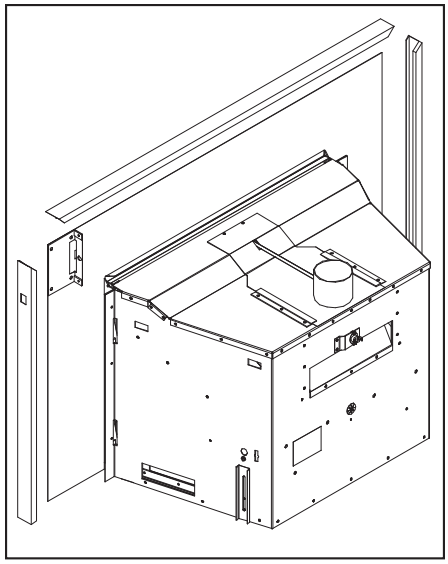


Figure 6. Surround Installation.

Initial Installation

QUALIFIED INSTALLERS ONLY

VENTING:

WARNING: This appliance has been designed to operate by drawing combustion air and dilution air from the room. It is also designed to draw room air for proper heat circulation from the sides 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. Provisions must be made for the supply of adequate combustion and ventilation air. These openings must not be blocked. The appliance must not be connected to a chimney flue servicing a separate solid fuel burning appliance.

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 venting should be inspected by a qualified service technician for possible blockage or severe down draft conditions.

NOTE: The draft hood must be in the same pressure zone as the air inlet. To inspect draft from the front of the unit, locate the ⅜" tube between the louvers and check for a draft using smoke. A vacuum or suction into the tube will indicate proper drafting.

This model can be vented with 3" aluminum or stainless steel flex vent and/or certified Type B Gas Vent. The flue collar of the appliance will fit inside a standard 3" vent and may be fastened directly to the vent.

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

VENTING FIREPLACE INSERTS:

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system can result in Carbon Monoxide (CO) poisoning and possible death.

The Enviro ACCENT 20 may be installed and vented into any solid fuel fireplace that has been installed in accordance with the National, Provincial/State and local building codes and has been constructed of non-combustible materials.

An approved full length of chimney liner and rain cap must be used. A throat connector or flashing **must** be installed to ensure a tight seal for top performance, safety and efficiency. Carefully follow the manufacturers instructions that accompany the chimney liner kit.

Install sealed throat connector or flashing to prevent leakage of room air up through 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.

Make sure that all chimney clean outs are tightly fitting and will not permit air to leak into the chimney.

The chimney must be clean, in good working order and constructed out of non-combustible materials. Any flue damper must be removed or blocked permanently in the open position.

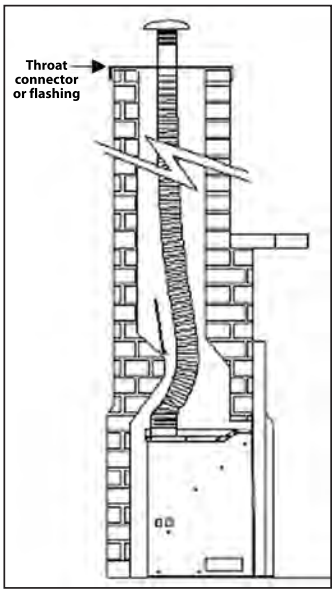


Figure 7. Accent 20 Installed.

Initial Installation

QUALIFIED INSTALLERS ONLY

Remove the vent collar plate from the top of the insert. It is recommended that a bead of Mil-Pac is placed on the outer edge of the inner exhaust pipe (non-flared end) before it is connect securely to the vent collar with sheet metal screws and/or hose clamps. Check for any tears in the liner at this point.

IMPORTANT: The screws that hold the vent collar plate in its approved position must be installed.

GAS LINE CONNECTION:

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

Gas Line Connection:

- This fireplace is equipped with a certified flexible pipe located on the right side of the unit, terminating in a ⅜ inch male NPT fitting. Consult the local authorities for local codes or use the CAN/CGA B149 (1 or 2) installation code in Canada. In the US, gas installations follow either local codes or the current edition of the National Fuel Gas Code ANSI Z223.1.
- The efficiency of this unit is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

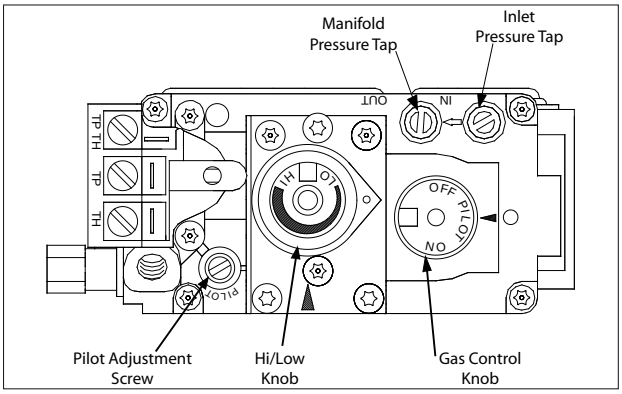


Figure 8. Gas Control Assembly

The appliance and its shut-off valves must be disconnected from the gas supply piping system during any pressure testing where the pressure **exceeds** ½ psig (3.45 kPa) or the valve will be damaged.

The unit must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at pressures **equal to or less than** ½ psig (3.45 kPa)

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

TO TEST VALVE PRESSURES:

The pressure taps are located on the top right of the valve. Figure 11.

- Turn set screw 1 turn counterclockwise to loosen.
- Place 5/16 inch (8 mm) I.D. hose over the pressure taps.
- Check pressures using a manometer.
- When finished, release pressure, remove hose and tighten set screw.

Table 1: Gas Rating

Main Burner	Natural Gas (inch WC/KPa)	Propane Gas (inch WC/KPa)
Orifice:	#45 DMS	#55 DMS
Manifold Press:	3.8 / 0.95	11.0 / 2.74
Min. Manifold Press:	1.1 / 0.27	2.7 / 0.67
Max. Supply Press:	7.0 / 1.74	12.0 / 2.98
Min. Supply Press:	5.0 / 1.25	11.5 / 2.86
Max. BTU/hr Input:	20,000 (5.9 KW•h)	20,000 (5.9 KW•h)
Min. BTU/hr Input:	10,000 (2.9 KW•h)	10,000 (2.9 KW•h)
Output BTU/hr (fan on)	15,100 (4.24 KW•h)	15,400 (4.5 KW•h)
Output BTU/hr (fan off)	14,000 (4.1 KW•h)	14,400 (4.2 KW•h)

NEVER USE AN OPEN FLAME FOR LEAK TESTING.

Initial Installation

QUALIFIED INSTALLERS ONLY

ELECTRICAL SYSTEM:

The fireplace 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 US.

WARNING: The electrical grounding instructions must be followed. This appliance is equipped with a three-prong (grounding) plug for your protection against shock hazard, and should be plugged directly into a properly grounded three-prong outlet. DO NOT cut or remove the grounding prong from this plug.

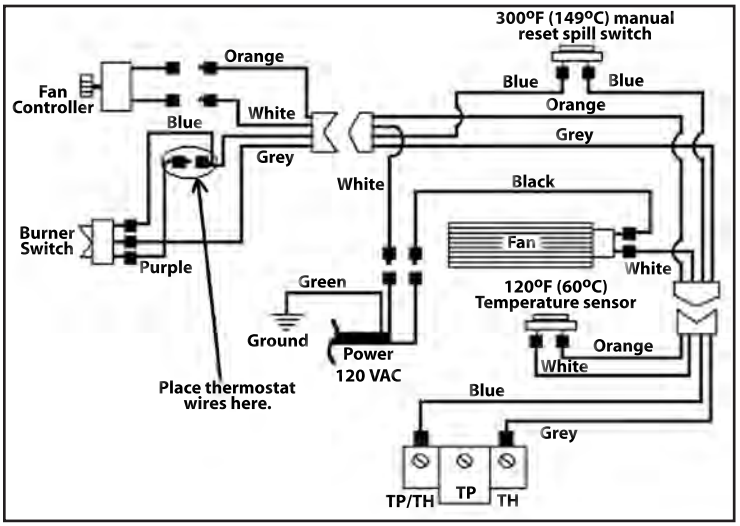


Figure 9. Wiring Diagram For Fan Control.

CAUTION: When servicing controls, label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

Table 2. Recommended Thermostat Wire Size.

Wire Size	Max. Length
14 gauge	100 ft (30.48 m)
16 gauge	60 ft (18.29 m)
18 gauge	40 ft (12.00 m)
20 gauge	25 ft (7.62 m)
22 gauge	18 ft (5.49 m)

REMOVING AND INSTALLING THE BLOWER:

1. Shut off gas supply to appliance and turn unit off
2. Open the door and gently remove the logs. Remove the brick panel as per instructions in "Secondary Installation - Removing and Installing The Brick Panels".
3. Remove the burner tray assembly by removing the two screws in the center of the tray. Pull tray up from the left side, lift tray up and out towards the left.
4. Undo the three screws that hold the burner control tray onto the back firewall. Lift the control tray up on the left side and pull out. Remove wire connector from firebox.
5. Disconnect the gas line to the nipple. Remove the three (3) screws holding the burner control tray to the back firewall. Lift tray up on left side and pull out.
6. Pull blower towards you and disconnect the wires from the blower and remove.
7. To re-install, perform the preceding steps in reverse. When installing the log set refer to "Secondary Installation - Log Set and Ember Installation".

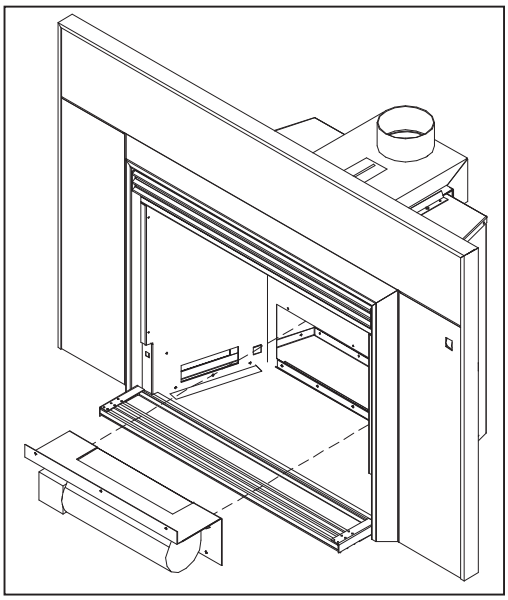


Figure 10. Installation of the blower.

Secondary Installation

Log Set and Ember Installation:

The placement of the logs is not arbitrary. If they are positioned incorrectly, the flames can be "pinched" and will not burn correctly. The burner (shown in Figure 11), and a few of the logs come with placement pins, notches and ledges, which make alignment easier. Using the pictures provided, carefully set the logs in place (see Figures 12 through 16).

NOTE: The logs are fragile and should be handled gently.

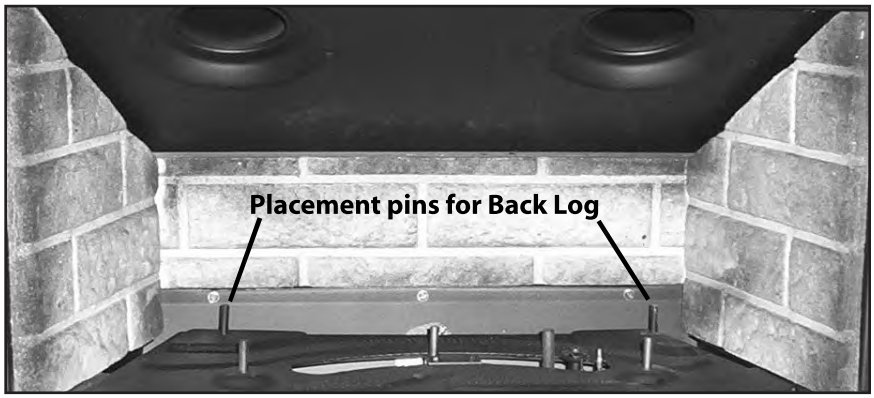


Figure 11. Empty firebox with grate and locator pins.

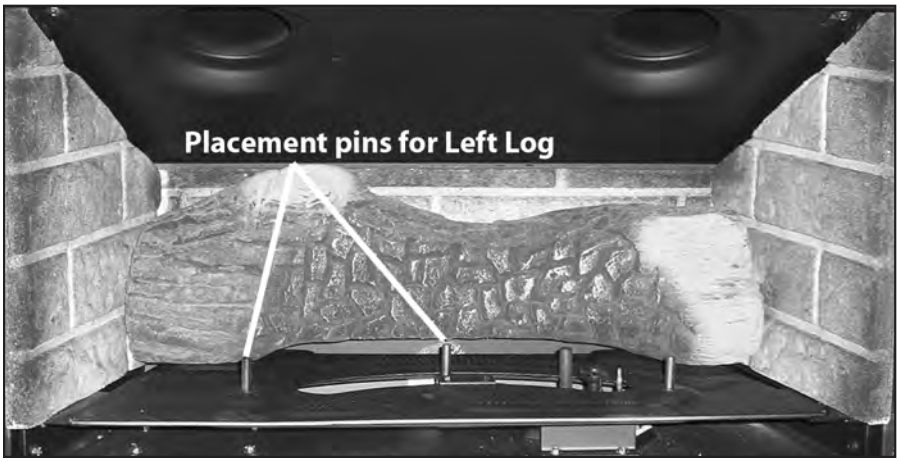


Figure 12. First Stage Log Set Installation.



Figure 13. Second Stage Log Set Installation.

Figure 11: This is how the fire box looks with only the brick panels in place. This points out the two (2) placement pins for the back log on the burner.

Figure 12: The first log to be placed is the **back log**, it has two (2) placement pins.
Note: The back log may fit tight against the back of the firebox.

Figure 13: The **left log** has two (2) placement pins.

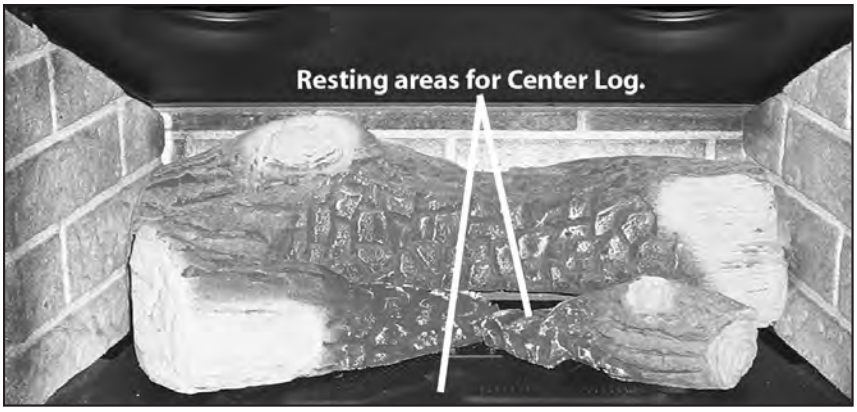


Figure 14. Third Stage Log Set Installation.

Figure 14: The **right log** it has one (1) placement pin and one (1) resting area.



Figure 15. Fourth Stage Log Set Installation.

Figure 15: The **center log** it has two (2) resting areas.



Figure 16. Complete log set-up with embers.

Figure 16: Once the logs are in place the embers can be placed onto and around the burner to create a realistic look. Bags of ceramic fiber embers. Place the embers irregularly around the burner.

WARNINGS: DO NOT pack this ember material as this could create an unsafe condition. The pieces should be lightly placed so they don't block any of the burner ports. DO NOT allow any of the embers to rest against the pilot assembly.

Caution: Use only the type of ember material supplied with this fireplace. Due to the irregular size of the ember material, there may be more than required. Use of other foreign materials on the burners may create dangerous conditions.



Figure 17. Accent 20 complete log set-up with embers burning.

Figure 17: The Accent 20 burning with a good flame.
NOTE: While the glass is still removed, it is recommended that the gas line be purged by lighting the pilot.

When lighting the fireplace for the first time since the log set and embers have been installed/replaced, watch for ignition at ALL the burner ports. If a long delay is noticed, turn the appliance off and wait for it to cool down. Then remove the glass and rearrange the ember material, making sure none of the burner ports are blocked.

IMPORTANT NOTE RE FIRST FIRE UP: When the unit is turned on for the first time, it should be turned to high without the fan for the first 4 hours. This will cure the paint, logs, gasket material and the other products used in the manufacturing process. It is advisable to open a window or door, as the unit will start to smoke and can irritate some people. After the unit has gone through the first burn, turn the unit off including the pilot, let the unit cool then remove the glass door and clean it with a good gas fireplace glass cleaner, available at your local ENVIRO dealer

Maintenance: Once a year, the logs should be removed and checked for deterioration or large amounts of soot. A small amount on the bottom side of the logs is normal. Remove and replace the logs in the same manner described above. If new/more embers and rock wool is required, contact your nearest ENVIRO dealer.

Never operate the fireplace with the glass door removed.

Removing And Installing The Brick Panels:

The Accent 20 comes with the brick panel set pre-installed but for some maintenance and installation procedures the panels must be removed.

1. Use a ¼" socket or a flat head screwdriver to remove the brick panel brackets on either side of the top of the firebox (refer to Figure 18).

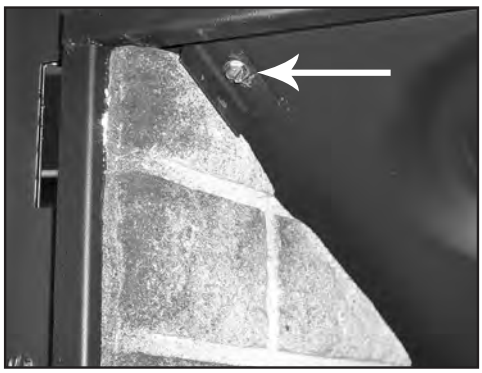


Figure 18: Brick panel bracket.

2. With the brackets removed the side panels can be taken out of the firebox. See Figure 19.
3. Remove back panel. See Figure 20.

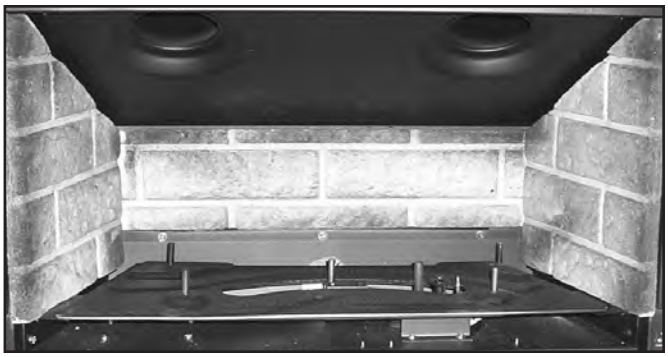


Figure 19: Side and back brick panel.



Figure 20: Back brick panel.

To replace the panel set follow steps 1 through 3 in reverse order. Ensure the panels are flush against the back/sides of the firebox before installing the brackets.

CAST IRON SURROUND PANEL EXTENSION TRIM KIT:

Quantity	Description
1	Surround panel extension
2	Small rectangular bracket
1	Left mounting bracket
1	Right mounting bracket
8	¼" bolts

Please inspect all components for damage. If damage has occurred please contact the courier company, dealer, or distributor and have components repaired or replaced before installation.

INSTALL SURROUND PANEL EXTENSION TO THE TOP: Place the extension on top of the surround panel with the wider side facing up. Bolt the cast iron extension in place using the small rectangular brackets and eight ¼" bolts (four on each side) supplied with the extension.

INSTALL SURROUND PANEL EXTENSION TO THE BOTTOM: Place the extension under the surround panel with the widest side facing up. To bolt the extension onto the bottom the old mounting brackets on the panel have to be replaced with the new side mounting brackets and eight ¼" bolts (four on each side).

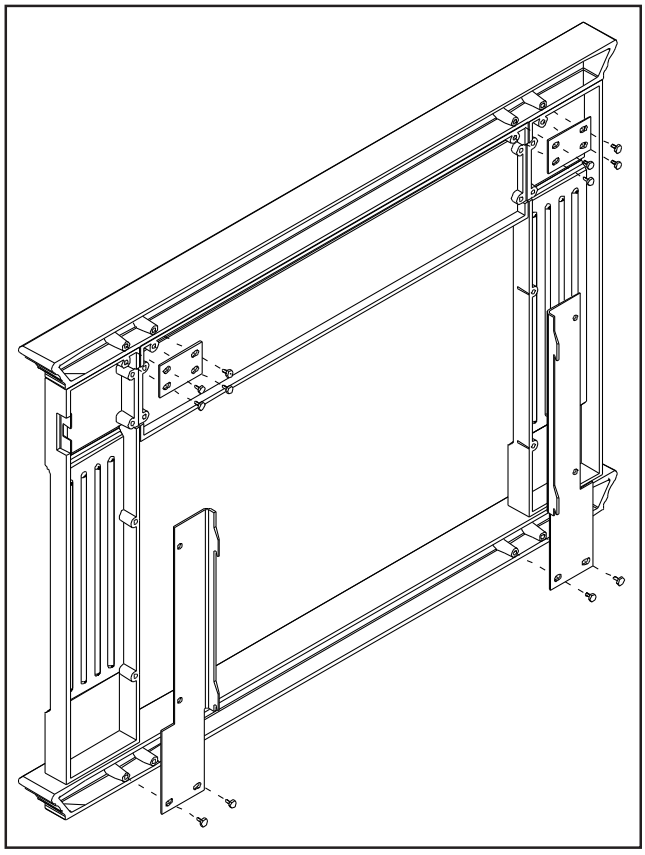


Figure 21. Assembly diagram of cast iron surround panel extension.

Trouble Shooting

Problem	Possible Cause	Solution
Spark will not light the pilot after repeatedly pressing the spark ignitor	Defective piezo ignitor	• Check connections to ignitor. • If ignitor connections are good but no spark, replace ignitor.
	Broken spark electrode	• Check for broken ceramic insulation, replace electrode if broken.
	Misaligned spark electrode	• If spark is not arcing from electrode to pilot, loosen the screws on the pilot base adjust and tighten.
Pilot will not remain lit	Problem with thermocouple circuit	• Check for proper connection of the thermocouple to the rear of the valve. If loose, fully tighten. • Check pilot for full flame impingement around thermocouple. If flame is too small, check gas pressure, adjust pilot rate screw, check pilot head for damage. • Check thermocouple voltage at valve. It must be greater than 5 mV. If low, replace thermocouple.
	Air in gas line (pilot 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 remain lit". • Check thermopile for minimum of 200 mV when burner is switched on. • Check wiring to thermostat for breaks.
Flame lifting	Leak in vent pipe	• Check for leaks in vent connections.
	Improper vent configuration	• Check vent configuration with manual.
	Terminal may be recirculating flue gases	• Check to see if terminal is on correctly. • May need to install high wind termination cap. • Contact dealer.
Glass fogs up	Normal Condition: after the appliance warms up the glass will clear. **Due to additives in gas, glass may get hazy during operation** Clean as needed.	
Blue Flames	Normal during start up: flames will yellow as the fireplace heats up.	
Flames are burning "dirty" or sooting	Flame impingement	• Check log positioning. • Increase primary air by opening the venturi shutter and/or by opening the vent restrictor. See also "Burners will not remain lit."
Insufficient air for combustion.	Air tight house or a vacuum in room due to other air moving devices (eg. kitchen and bathroom fans).	• Supply make-up air to the unit, open window.

Parts List - Cast

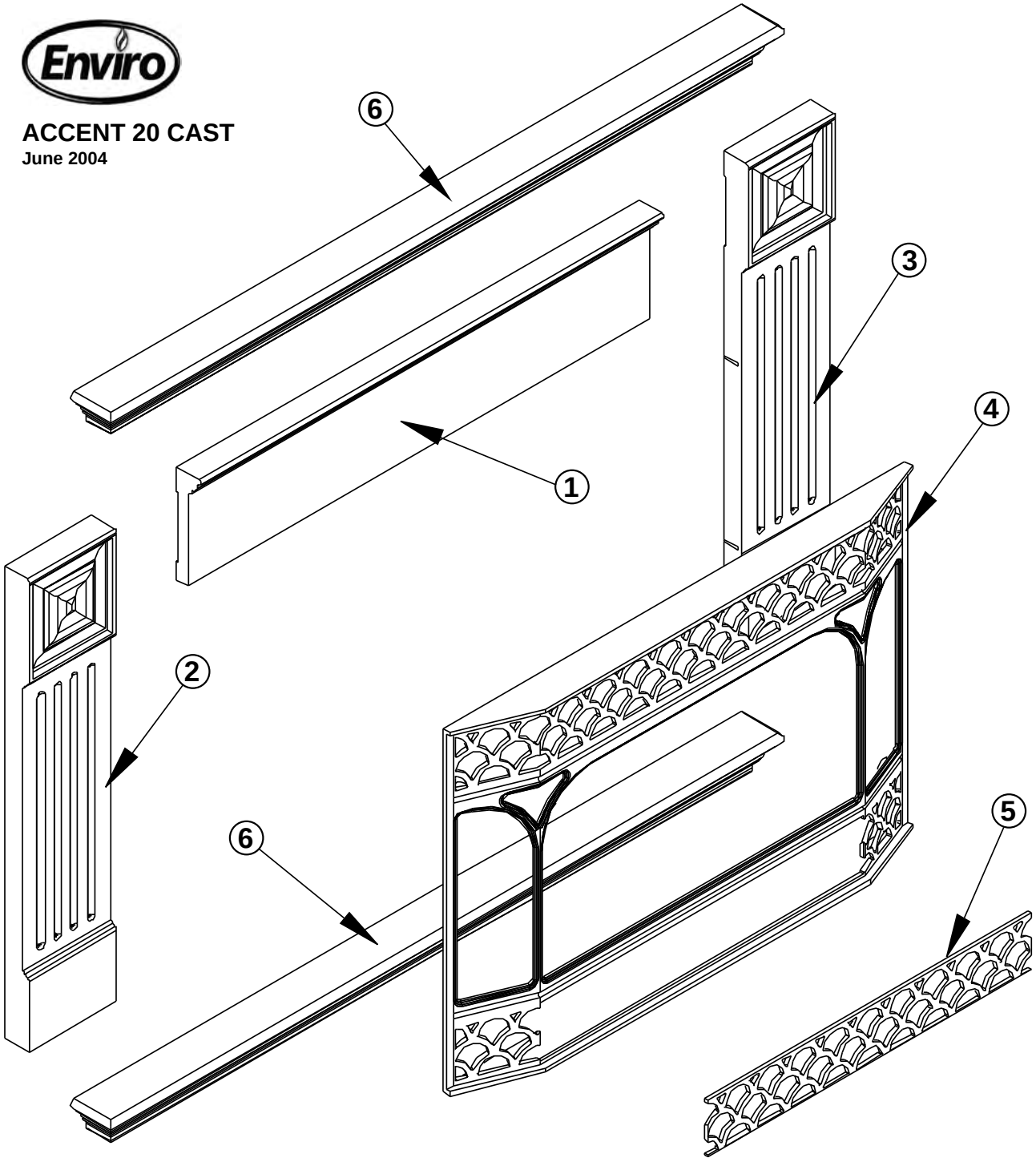
Reference Number	Part Description	Part Number
	Front & Complete Surround - Painted	50-146
	Front & Complete Surround - Antique White	50-147
	Front & Complete Surround - Diamond Black	50-148
	Front & Complete Surround - Pearl Grey	50-149
	Front & Complete Surround - Inferno Red	50-150
	Front & Complete Surround - Wedgewood Blue	50-151
	Front & Complete Surround - Westport Green	50-152
	Front & Complete Surround - Antique Chestnut	50-813
	Surround Panels Only - Painted	50-409
	Surround Panels Only - Antique White	50-410
	Surround Panels Only - Diamond Black	50-411
	Surround Panels Only - Inferno Red	50-412
	Surround Panels Only - Pearl Grey	50-413
	Surround Panels Only - Wedgewood Blue	50-414
	Surround Panels Only - Westport Green	50-415
	Surround Panels Only - Antique Chestnut	50-883
1	Surround Panels Top Piece Only - Painted	50-416
1	Surround Panels Top Piece Only - Diamond Black	50-417
1	Surround Panels Top Piece Only - Inferno Red	50-418
1	Surround Panels Top Piece Only - Pearl Grey	50-419
1	Surround Panels Top Piece Only - Antique White	50-420
1	Surround Panels Top Piece Only - Wedgewood Blue	50-421
1	Surround Panels Top Piece Only - Westport Green	50-422
1	Surround Panels Top Piece Only - Antique Chestnut	50-882
2	Surround Panels Left Piece Only - Painted	50-423
2	Surround Panels Left Piece Only - Antique White	50-424
2	Surround Panels Left Piece Only - Diamond Black	50-425
2	Surround Panels Left Piece Only - Inferno Red	50-426
2	Surround Panels Left Piece Only - Pearl Grey	50-427
2	Surround Panels Left Piece Only - Wedgewood Blue	50-428
2	Surround Panels Left Piece Only - Westport Green	50-429
2	Surround Panels Left Piece Only - Antique Chestnut	50-880

Parts List - Cast

Reference Number	Part Description	Part Number
3	Surround Panels Right Piece Only - Painted	50-430
3	Surround Panels Right Piece Only - Antique White	50-431
3	Surround Panels Right Piece Only - Diamond Black	50-432
3	Surround Panels Right Piece Only - Inferno Red	50-433
3	Surround Panels Right Piece Only - Pearl Grey	50-434
3	Surround Panels Right Piece Only - Wedgewood Blue	50-435
3	Surround Panels Right Piece Only - Westport Green	50-436
3	Surround Panels Right Piece Only - Antique Chestnut	50-881
4	Front Only (No glass, surround, valve door, or clip-on) - Painted	50-437
4	Front Only (No glass, surround, valve door, or clip-on) - Antique White	50-438
4	Front Only (No glass, surround, valve door, or clip-on) - Diamond Black	50-439
4	Front Only (No glass, surround, valve door, or clip-on) - Inferno Red	50-440
4	Front Only (No glass, surround, valve door, or clip-on) - Pearl Grey	50-441
4	Front Only (No glass, surround, valve door, or clip-on) - Wedgewood Blue	50-442
4	Front Only (No glass, surround, valve door, or clip-on) - Westport Green	50-443
4	Front Only (No glass, surround, valve door, or clip-on) - Antique Chestnut	50-879
5	Valve Access Door - Painted	50-444
5	Valve Access Door - Antique White	50-445
5	Valve Access Door - Diamond Black	50-446
5	Valve Access Door - Inferno Red	50-447
5	Valve Access Door - Pearl Grey	50-448
5	Valve Access Door - Wedgewood Blue	50-449
5	Valve Access Door - Westport Green	50-450
5	Valve Access Door - Antique Chestnut	50-884
6	Trim (1 piece) - Painted	50-153
6	Trim (1 piece) - Antique White	50-154
6	Trim (1 piece) - Diamond Black	50-155
6	Trim (1 piece) - Pearl Grey	50-156
6	Trim (1 piece) - Inferno Red	50-157
6	Trim (1 piece) - Wedgewood Blue	50-158
6	Trim (1 piece) - Westport Green	50-159
6	Trim (1 piece) - Antique Chestnut	50-814

Parts Diagram - Cast

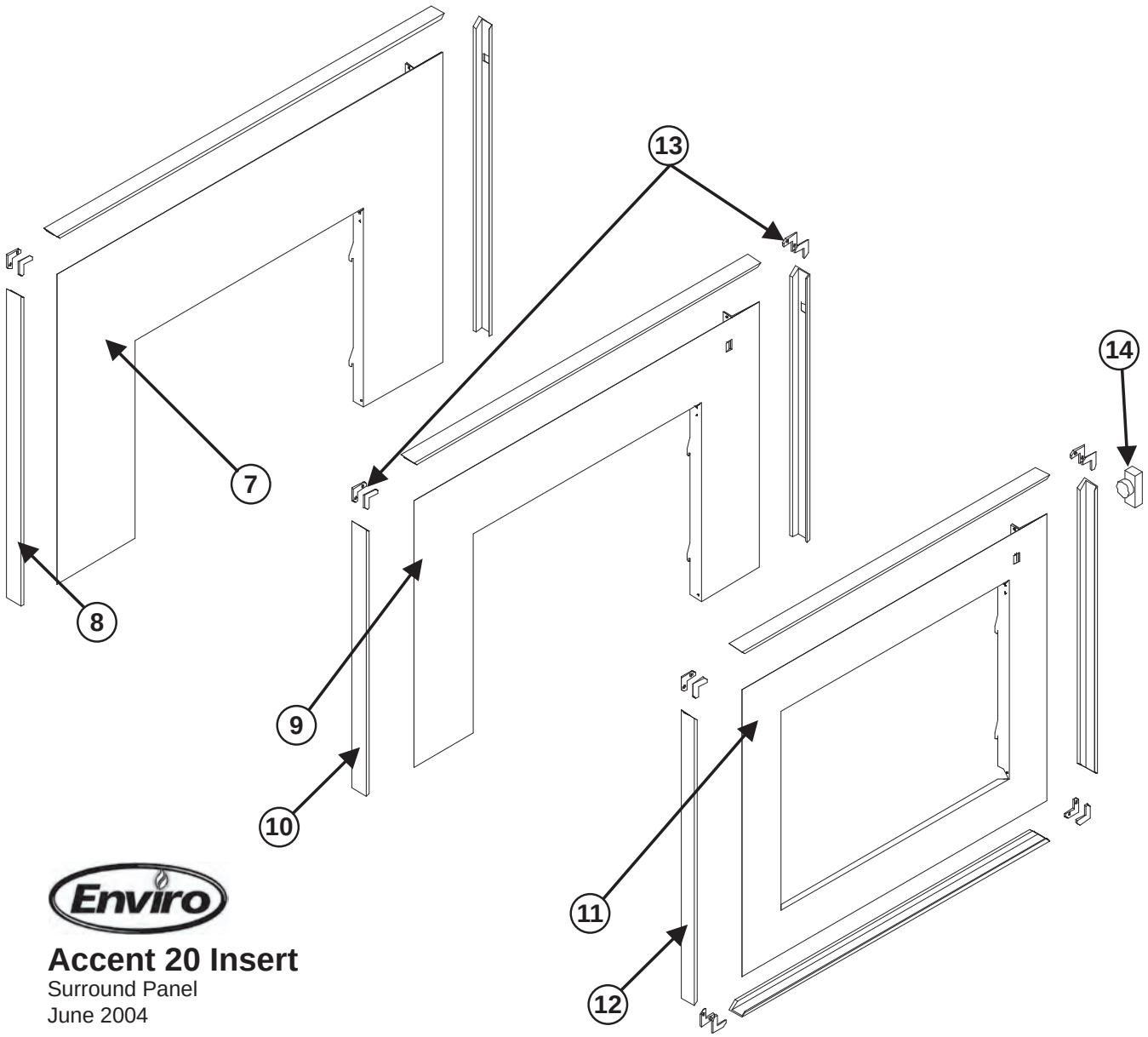
ACCENT 20 CAST
June 2004



Parts List - Surround Panels

Reference Number	Part Description	Part Number
7	Oversized Surround Panel with Black Trim	50-105
7	Oversized Surround Panel with Brass Trim	EG20-122
8	Oversized Trim Only - Black	50-120
8	Oversized Trim Only - Brass	EC-051
8	Oversized Trim Only - Nickel	50-132
9	Regular Surround Panel with Black Trim	50-104
9	Regular Surround Panel with Brass Trim	EG20-120
10	Regular Trim Only - Black	50-126
10	Regular Trim Only - Brass	50-114
10	Regular Trim Only - Nickel	50-138
11	Four Sided Surround Panel with Black Trim	50-106
11	Four Sided Surround Panel with Brass Trim	EG20-130
12	Four Sided Trim Only - Black	50-128
12	Four Sided Trim Only - Brass	50-116
12	Four Sided Trim Only - Nickel	50-140
13	Tapped Corner Bracket	EC-053
14	Fan Controller - 115V	EC-039
14	Fan Controller Knob	EC-041
	Burner Switch	EC-026
	Wiring Harness - Surround Panel	EC-034

Parts Diagram - Surround Panels

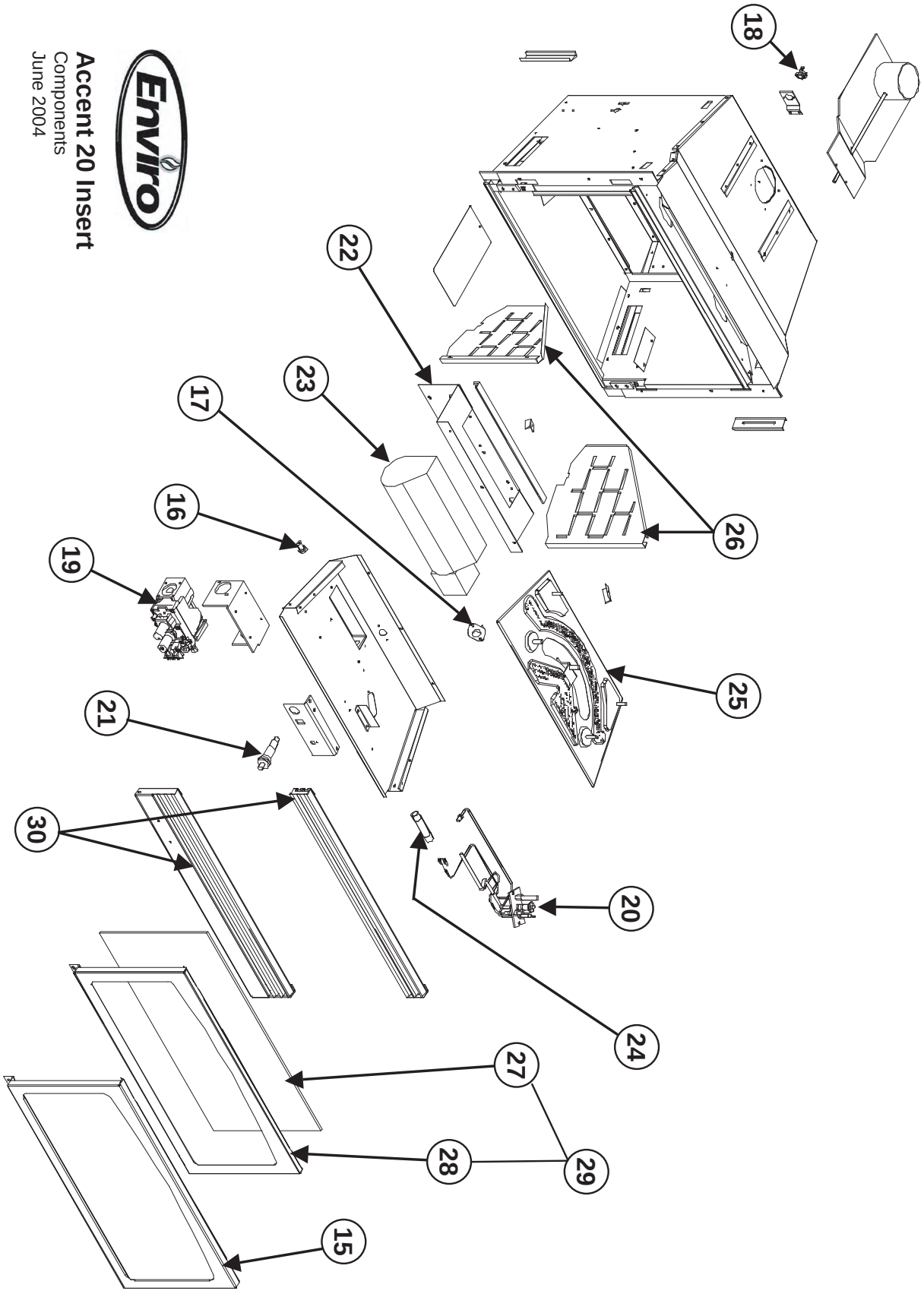


Accent 20 Insert
Surround Panel
June 2004

Parts List - Components

Reference Number	Part Description	Part Number
	Door Louvre Magnets	30-037
	Window Frame Nut Inserts	30-038
	Window Frame Screws	30-039
15	Door Cover - Gold	50-001
15	Door Cover - Polished Nickel	50-002
	Accent 20 Owner's Manual	50-304
16	Blank Orifice #73	50-343
17	120°F (49°C) Ceramic Fan Temperature Sensor	EC-001
18	300°F (149°C) Temperature Sensor Spill Switch	EC-003
19	S.I.T. Nova Valve NG (50% Turn Down)	EC-006
19	S.I.T. Nova Valve LP (50% Turn Down)	EC-007
20	Thermocouple	EC-009
20	Spark Electrode with Ignitor Cable	EC-011
20	Thermopile	EC-012
20	Fully Assembled Pilot NG	EC-015
20	Fully Assembled Pilot LP	EC-016
21	S.I.T. Piezo Ignitor	EC-023
22	Fan Mount	EC-028
	Wiring Harness Complete (3 Pieces)	EC-033
	Wiring Harness - Body	EC-035
	Wiring Harness - Burner	EC-036
	Domestic Power Cord - 115V	EC-042
	Heyco Strain Relief	EC-044
	Embers (Coal & Wool)	EC-046
	Log Set with Embers	EC-048
	Insert Valve Access Door Magnets (x 2)	EC-050
23	Convection Blower - 115V	EC-069
	NG Burner Control Assembly	EG20-052
	LP Burner Control Assembly	EG20-054
24	3" X ⅜" Black Iron Nipple	EG20-062
25	Burner Tray Top	EG20-066
	Envirogas EG20 Name Plate	EG20-070
26	Brick Panel - Ceramic	EG20-074
26	Brick Panel - Metal	EG20-075
27	Window Channel Tape	EG20-089
27	Glass with Gasket	EG20-090
	Clip-On Door	EG20-091
28	Door - Painted	EG20-092
29	Door Complete - Painted	EG20-093
	Bevelled Fascia	EG20-111
30	Louvre Set (Top & Bottom) - Gold	EG20-115
30	Louvre Set (Top & Bottom) - Painted	EG20-116
	LP to NG Conversion Kit	EG20-201
	NG to LP Conversion Kit	EG20-203

Parts Diagram - Components



Warranty

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, Chassis and Heat Exchanger. These steel components are covered against manufacturer's defects for parts 5 years labor for the first year and for parts only thereafter† 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 the following against manufacture defects under our lifetime warranty: Gold Plating, Log Set, Burners and Glass†. 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 contaminants. Log set- 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 not covered under warranty.

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

† - 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 manufacturer 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.

Installation Data Sheet

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

NAME OF OWNER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

NAME OF DEALER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MODEL:_____

SERIAL NUMBER:_____

DATE OF PURCHASE: _____ (dd/mm/yyyy)

DATE OF INSTALLATION:_____(dd/mm/yyyy)

☐ NATURAL GAS (NAT) ☐ PROPANE(LPG)

INLET GAS PRESSURE:_____in wc

MAIN BURNER ORIFICE:_____# DMS

PILOT ORIFICE #_____OR_____in diam.

INSTALLER'S SIGNATURE:

_____

NAME OF INSTALLER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
www.envirofire.biz
June 14, 2004
C-10235