



E20I

GAS FIREPLACE INSERT

OWNER'S MANUAL

WARRANTY REGISTRATION
enviro.com/warranty



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.

SAFETY PRECAUTIONS



WARNING:

FIRE OR EXPLOSION HAZARD

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

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **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.
 - Leave the building immediately.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

INSTALLER:

Leave this manual with the appliance.

CONSUMER:

Retain this manual for future reference.

This appliance may be installed in an after-market permanently located, manufactured (mobile) home, where not prohibited by local codes.

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.

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., a shut off valve must be installed; only direct vent sealed combustion products are approved for bedrooms/bathrooms. A carbon monoxide detector is required in all rooms containing gas fired direct vent appliances. The fireplace damper must be removed or welded in the open position prior to installation of a fireplace insert.

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. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces. Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.

- Clothing or other flammable materials should not be placed on or near the appliance.

- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals. If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this 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, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the Natural Gas and Propane Installation Code, CSA B149.1.

- 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 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 or any gas control which has been under water.

- Do not abuse the glass by striking it or slamming the door shut.

- If the E20 unit is pulled out of its installation, and the vent-air intake system is disconnected for any reason, ensure that the vent-air intake pipes are reconnected and re-sealed in accordance to the instructions noted in INITIAL INSTALLATION - VENTING FIREPLACE INSERTS.



DANGER



HOT GLASS WILL CAUSE BURNS

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

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CODES AND APPROVALS

DIRECT VENT: This type is identified by the suffix DV. This appliance draws all of its air for combustion from outside the dwelling, through a specially designed vent pipe system.

This appliance has been tested and approved for installations from 0 feet to 4500 feet (1372 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 and found to comply with the established VENTED GAS FIREPLACE HEATER standards in CANADA and the USA as follows:

VENTED GAS FIREPLACE HEATER (E20I DV; NG/LPG)

TESTED TO: ANSI Z21.88-2014/CSA 2.33-2014 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 E20 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 permanent wall thermostat for bedroom installations is required. Consult the authority having local jurisdiction in your area. **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.
- Is not approved for closet or recessed installations.

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, 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. See "DOOR REMOVAL" and "CLEANING THE GLASS" sections.

COLD CLIMATES:

NOTE: In cold climates, additional insulation may be used on some venting. It is recommended in cold climates to wrap the exhaust and intake venting for the final few feet before termination.

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INSTITUTE



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.

SPECIFICATIONS

RATING LABEL LOCATION:

The rating label is located on the left side of the unit and is attached to a rectangular metal sheet that is chained to the fireplace.

DIMENSIONS:

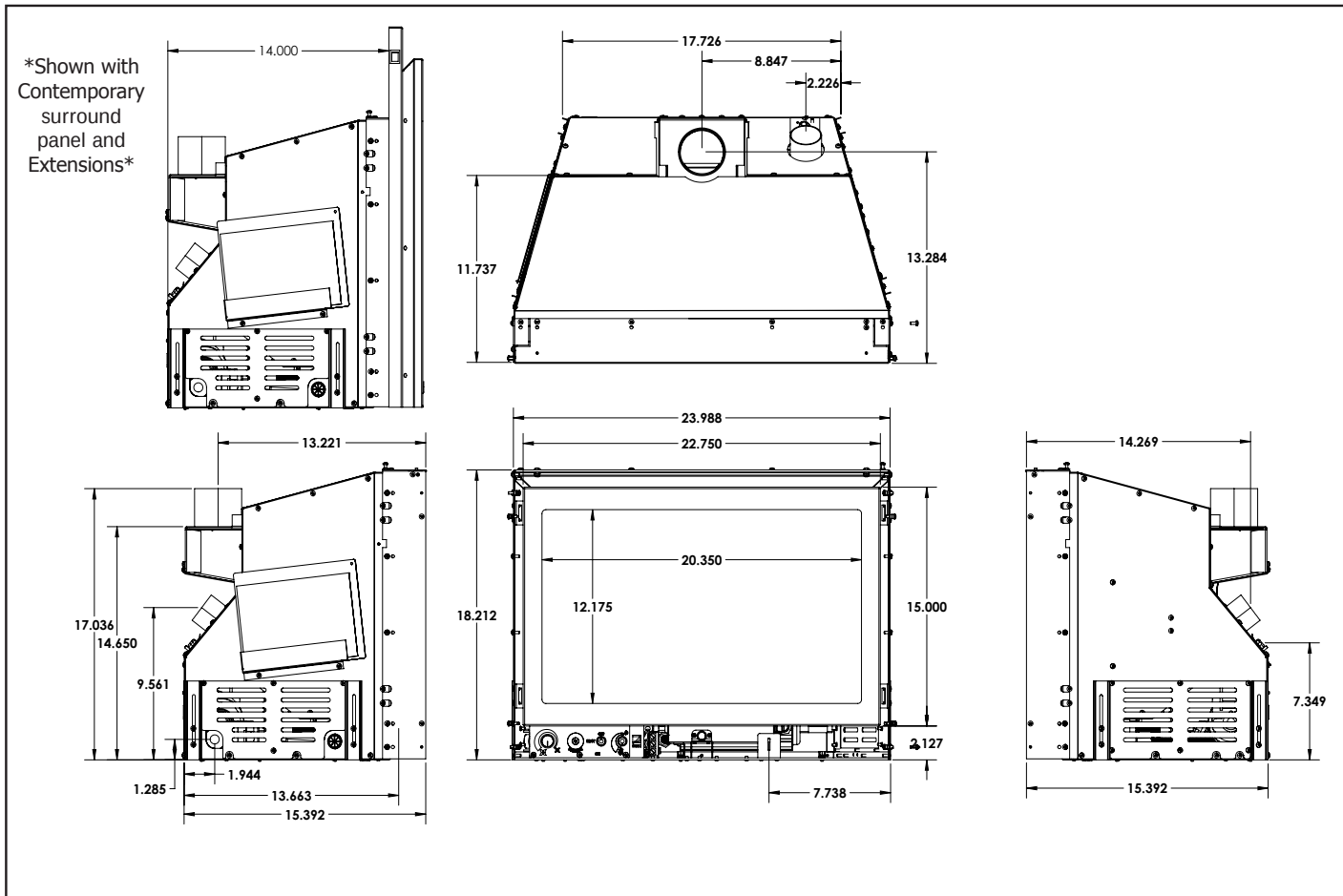


Figure 1: E20 Unit Dimensions.

INSTALL DEPTH:

The available depth of install is 14.00" when using the Extruded Surround Panel and the Contemporary Surround Panel. When using the Keystone Surround Panel your install dept will increased to 14.75"

SPECIFICATIONS

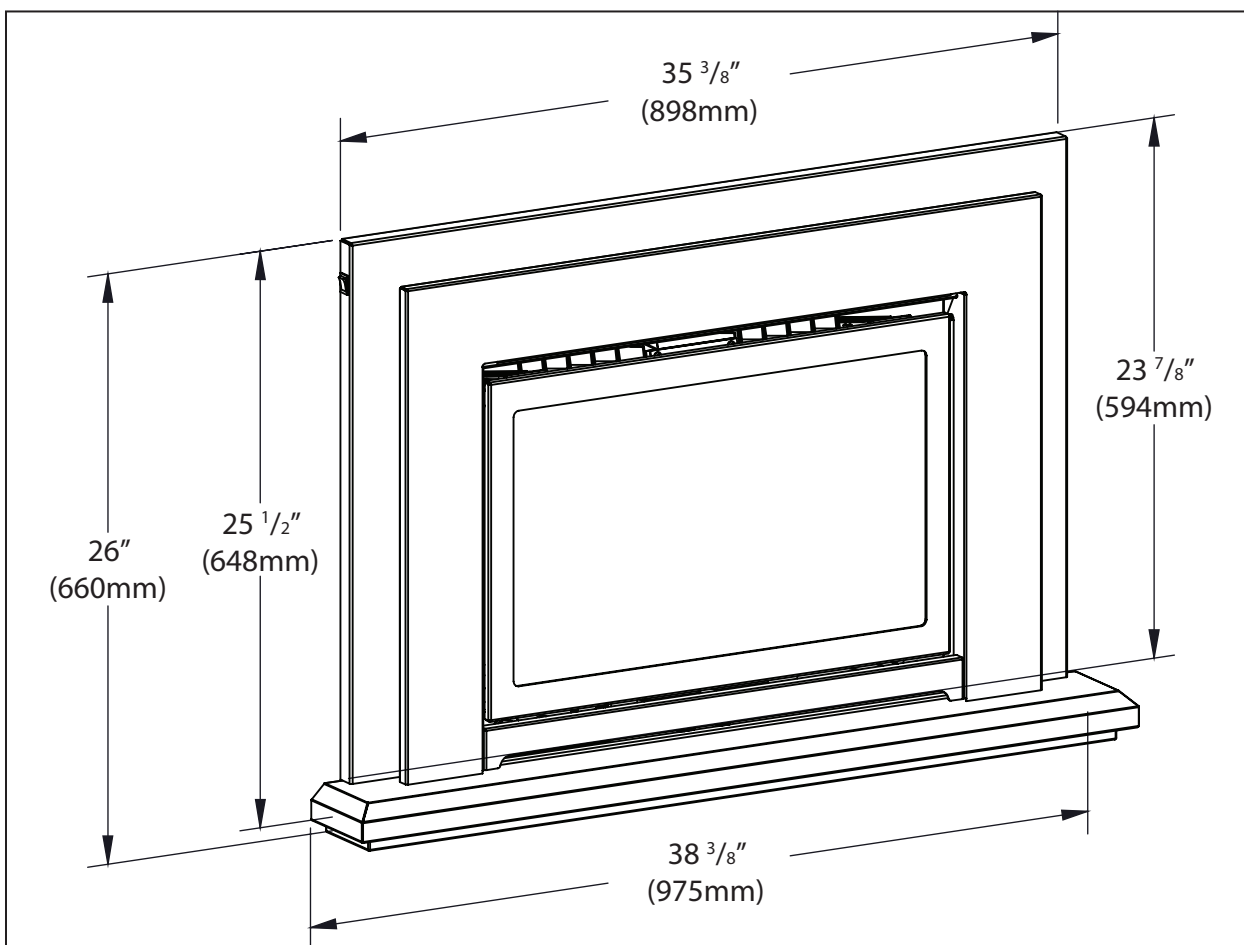


Figure 2: E20 Contemporary Surround with Base Shelf and Riser.

Table 1: E20 Options Dimensions.

	Regular Surround	Contemporary Surround	Extruded Surround
Height	23 ⁷ / ₈ " (594mm)	23 ⁷ / ₈ " (594mm)	23 ⁷ / ₈ " (594mm)
Width	35 ³ / ₈ " (898mm)	35 ³ / ₈ " (898mm)	35 ³ / ₈ " (898mm)
Trimnable Surround	Height		Width
	28 ³ / ₄ " (705mm)		41 ¹³ / ₁₆ " (1062mm)
	Base Shelf		Base Shelf Riser
Height	1 ⁵ / ₈ " (41mm)		2 ¹ / ₈ " (54mm)
Width	38 ³ / ₈ " (975mm)		36 ⁷ / ₈ " (937mm)
Depth	Bottom 4 ⁷ / ₈ " (112mm); Top 3 ¹³ / ₁₆ " (97mm)		3 ¹¹ / ₁₆ " (94mm)

OPERATING INSTRUCTIONS

For Your Safety, Read Safety Precautions And Lighting Instructions 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.

LIGHTING AND TURNING OFF 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 an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell 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, don't 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.

OPERATING INSTRUCTIONS

1. STOP! Read the safety information above on this label.

2. Read the owner's manual including the section on "Remote Control" operation.

3. Set the thermostat to the lowest setting.

4. Turn off all electric power to the appliance.

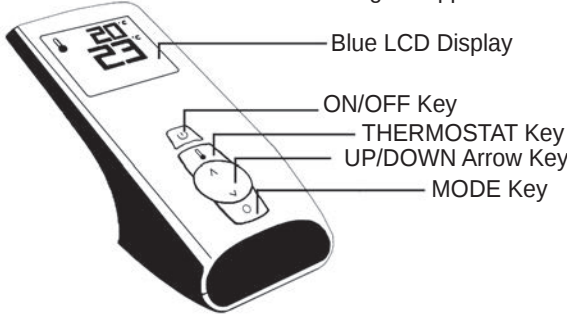
5. Do not attempt to light the pilot by hand.

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to the next step.

7. Turn on all electric power to the appliance.

8. Using the remote control, set thermostat to desired setting, or press the ON/OFF key on the remote. "ON" will be indicated on the display of the remote and an audible "beep" will be heard at the unit to indicate the command has been received.

9. This appliance is equipped with a completely automatic ignition and lighting control. The control will attempt to light the pilot several times if necessary. If it is unsuccessful, it will discontinue operations. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



TO TURN OFF GAS TO APPLIANCE

1. Set thermostat to lowest setting, or press the ON/OFF Key. "OFF" will be indicated on the display and an audible "Beep" will be heard at the unit to indicate the command has been received.

2. Turn off all electric power to the appliance if service is to be performed.

C-12455

Figure 3: Lighting instruction label.

OPERATING INSTRUCTIONS

VENTURI ADJUSTMENT:

The venturi adjustment lever is located on the right side of the unit, below the door (see Figure 4).

The venturi allows the amount of air coming into the fireplace to be adjusted in order to accommodate different climates and venting arrangements. Start the pilot and then the burner. Make sure the pilot flame is burning normally and none of the burner ports are plugged. Let the fireplace burn for roughly fifteen (15) minutes and then examine the flames.

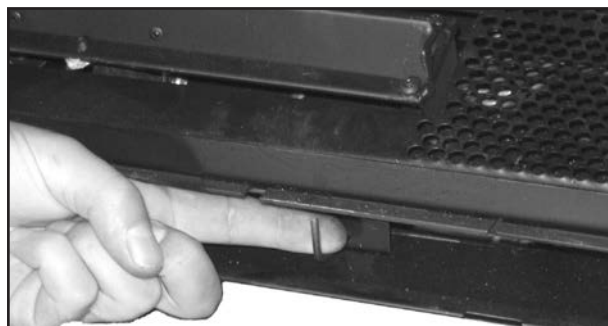


Figure 4: Adjusting the venturi air setting.

The ideal flame will be blue at the base and light orange above. The flames should be of medium height. If the flames look like this, no venturi adjustment is needed. If the flames are fairly short and mostly blue, the fireplace is getting too much air. Therefore, the air shutter should be closed (push in) slightly until the correct flames are achieved. Flames that are very orange, with tall dark stringy tips are not getting enough air. Open (pull out) the venturi until the flames clean up. If the venturi is opened, then closed all the way, and the correct flames cannot be attained, turn off the gas and contact the dealer.

Warning: Incorrect venturi adjustment may lead to improper combustion, which is a safety hazard. Contact the dealer if there is any concern about the venturi adjustment.

OPERATING INSTRUCTIONS

NOTE: Check that all burner holes are lit.

TO TURN GAS FIREPLACE OFF

Flip the burner switch to OFF to turn off burner only.

If the fireplace is to be turned off for the season or for servicing, turn control knob to OFF, turn the gas shut off valve to OFF. DO NOT FORCE IT. If the unit is going to be serviced, turn off the electrical power to the unit as well.

NOTE: When the unit is turned on for the first time, it should be turned onto high, with the fan OFF, for the first four (4) hours. This will cure the paint, logs, gasket material, and other products used in the manufacturing process. It is advised that a door or window be opened as the unit will start to smoke, which can irritate some people. After the unit has gone through the first burn, turn the unit OFF, including the pilot, and let the unit completely cool. Then remove the glass and clean it with a good gas fireplace glass cleaner, available at your local Enviro dealer. See MAINTENANCE AND SERVICE - CLEANING THE GLASS and MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.

NORMAL SOUNDS DURING OPERATION:

Component	Sound & Reason
E20	Creaking when heating up or cooling down.
Burner	Light pop or poof when turned off; this is more common with LP units.
Temperature Sensor	Clinking when it senses to turn the blower on or off.
Pilot Flame	Quiet whisper while the pilot flame in on.
Blower / Fan	Air movement that increases and decreases with the speed of the blower.
Gas Control Valve	Dull click when turning on or off, this is the valve opening and closing.

Table 2: Normal Sounds

OPERATING INSTRUCTIONS

REMOTE CONTROL OPERATIONS:

Proflame 2 is a modular remote control system that directs the functions of the E20. The Proflame 2 TMFSLA is configured to control the on/off main burner operation, its flame levels and provides on/off and Smart thermostatic control of the appliance. The system also controls the fan speed through six (6) levels.

SYSTEM DESCRIPTION:

The Proflame 2 Remote Control System consists of two (2) elements:

1. Proflame 2 Transmitter.
2. Integrated Fireplace Controller (IFC) and a wiring harness to connect to the gas valve and stepper motor.

ATTENTION!

- TURN "OFF" THE MAIN GAS SUPPLY OF THE APPLIANCE DURING INSTALLATION OR MAINTENANCE OF THE IFC.
- TURN "OFF" MAIN GAS SUPPLY TO THE APPLIANCE PRIOR TO REMOVING OR REINSERTING THE BATTERIES IN THE BATTERY HOLDER

TECHNICAL DATA

Transmitter (Remote Control):

Supply voltage: 4.5 V (three 1.5 V AAA batteries)
Radio frequency: 315 MHz

Integrated Fireplace Controller (IFC):

Supply voltage: AC IN - 120 V / 60 Hz
Battery Backup IN - 6 Vdc - 200mA (four 1.5 V AA batteries)
Spark voltage / frequency: >10kV / 1Hz
Comfort modulating fan: 120 V / 60 Hz / 2A
Auxiliary: 120 V / 60 Hz / 5A (not used)

TRANSMITTER:

The Proflame 2 Transmitter is a black remote control with a blue backlit lcd display. It uses a streamline design with a simple button layout and informative lcd readout (Figure 5). The Transmitter is powered by three (3) AAA type batteries. A Mode Key is provided to Index between the features and a Thermostat Key is used to turn on/off or index through Thermostat functions (Figure 5 & 6)

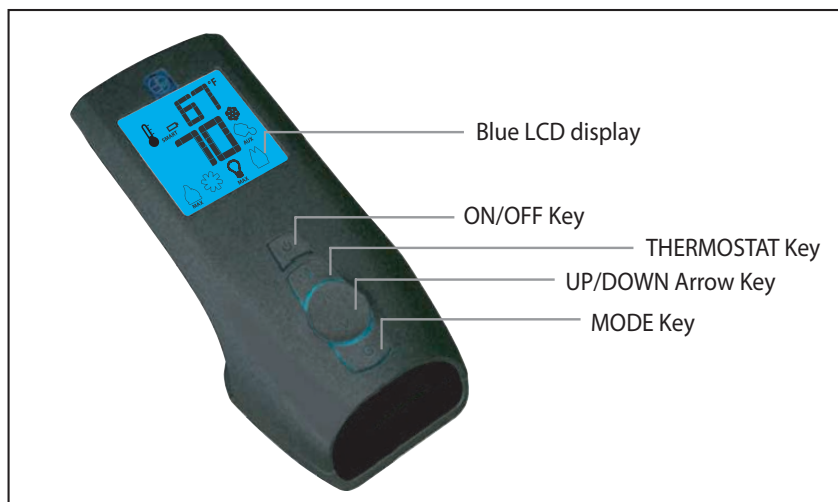


Figure 5: Proflame 2 Transmitter.

OPERATING INSTRUCTIONS

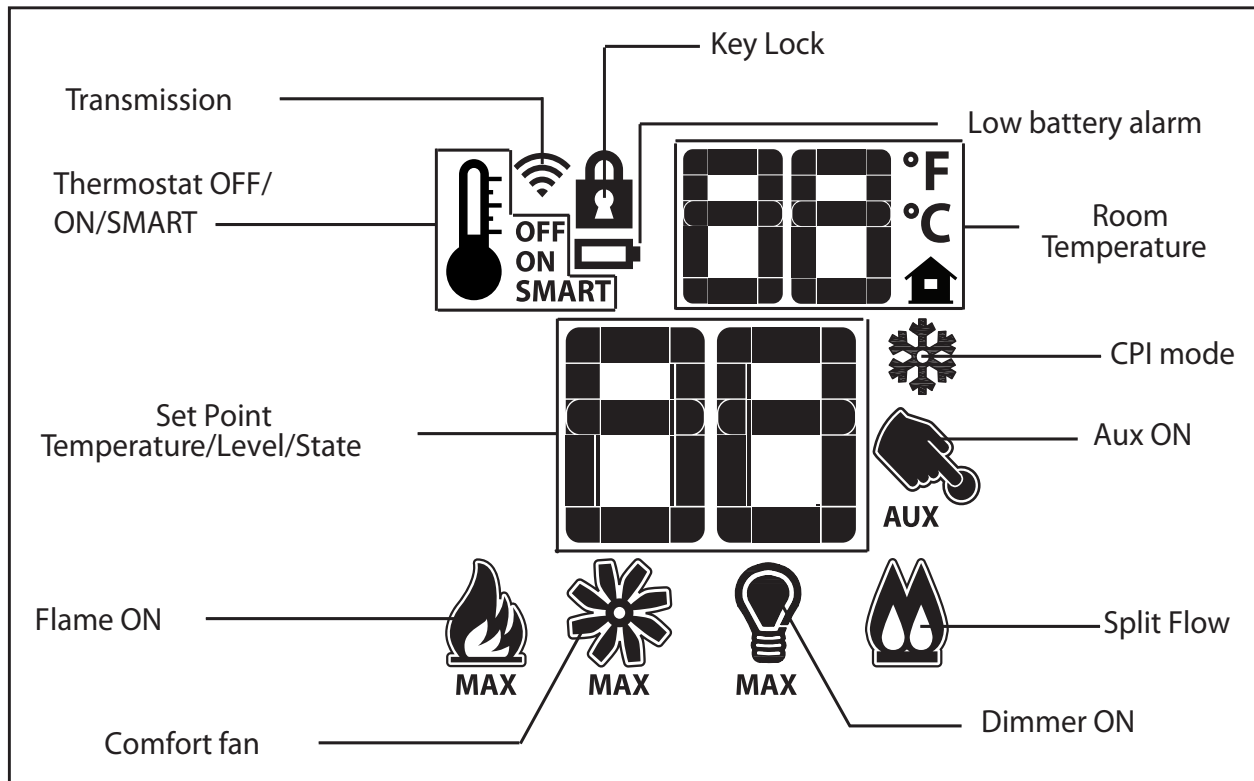
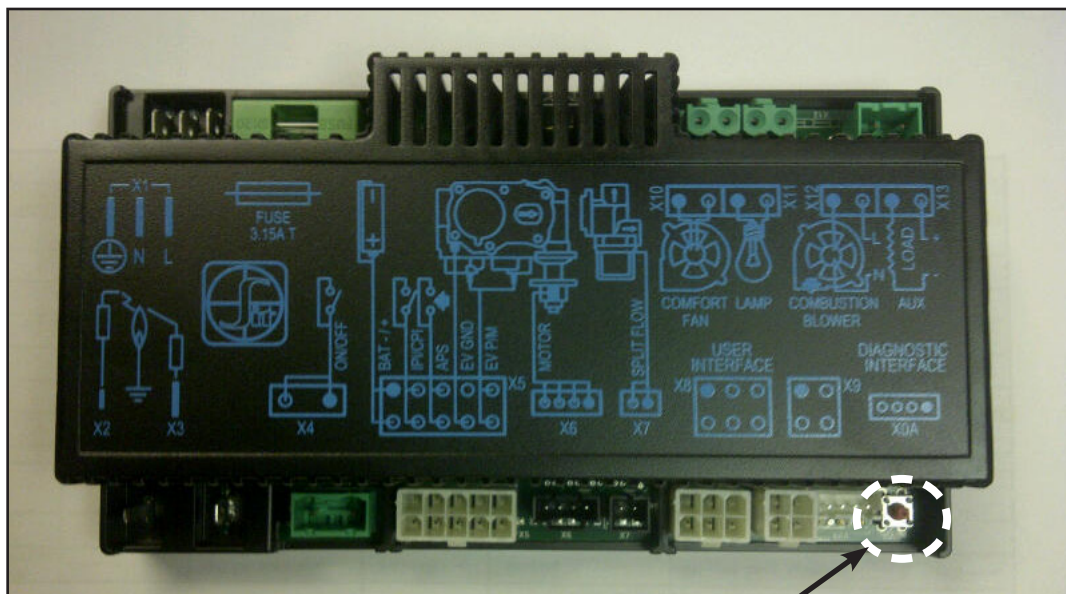


Figure 6: Proflame 2 Transmitter LCD Screen.

INTEGRATED FIREPLACE CONTROLLER (IFC):

The Proflame 2 IFC (Figure 7) connects directly to the gas valve, split flow valve, stepper motor, pilot and convection fan with a wiring harness. The IFC is mainly powered by 120 VAC but can also run off a battery backup four (4) AA type batteries for shorter periods of time. The IFC accepts commands via radio frequency from the Transmitter to operate the appliance in accordance with the particular Proflame 2 system configuration. The IFC has a red reset button at the front right corner that is used to synchronize the Transmitter when using the for the first time, or after the batteries have been replaced.



Reset Button

Figure 7: Integrated Fireplace Controller

OPERATING INSTRUCTIONS

OPERATING PROCEDURE:

Initializing The System For The First Time

Install the four (4) AA batteries into the IFC battery holder. Note the polarity of the battery and insert into the battery bay as indicated on the body of the battery holder. Press the reset button on the IFC marked "SW1" (see Figure 7).

The IFC will "beep" three (3) times to indicate that it is ready to synchronize with a Transmitter. Install the three (3) AAA type batteries in the Transmitter battery bay, located on the base of the Transmitter. With the batteries already installed in the Transmitter, push the 'ON' button. The IFC will "beep" four (4) times to indicate the Transmitter's command is accepted and sets to the particular code of that Transmitter. The system is now initialized.

Temperature Indication Display

With the system turned OFF, press the Thermostat Key and the Mode Key at the same time. Look at the LCD screen on the transmitter to verify that a °C or °F is visible to the right of the Room Temperature display (see Figure 7).

Turn on the Appliance

Press the ON/OFF Key on the Transmitter. The Transmitter display will show all active Icons on the screen. A single "beep" from the IFC will confirm reception of the command and will commence to first ignite the pilot light, followed by the main burner. This should take about 10 seconds to complete.

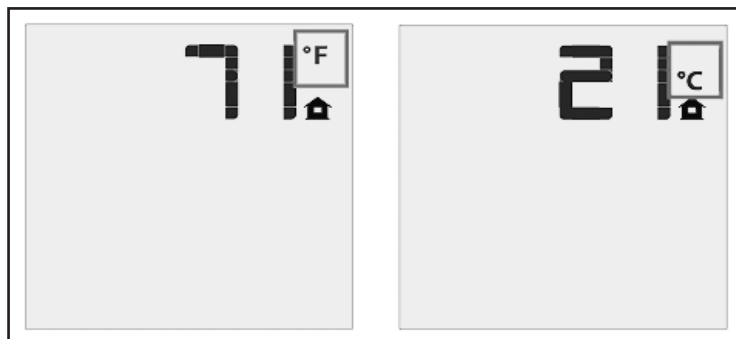


Figure 8: Remote Control Display in Fahrenheit and Celsius.

SWITCHING TO CONTINUOUS PILOT MODE:

When the E20I is turned off press the mode key to index to the constant pilot (CPI) mode icon (see figure 9). Pressing the up arrow key will select Continuous Pilot Ignition (CPI) and pressing the down arrow key will return to IPI. Once a selection is made the IFC will beep once to confirm it had received the command. **NOTE: It is recommended to use the continuous pilot mode during the winter when the outside temperature is below 50°F (10°C) to keep the chimney properly heated for updraft during burner ignition.** Continuous pilot mode also keeps the firebox warm which eliminates both heat loss to cold air that is trapped inside the firebox as well as excessive exhaust vapour condensation on the door glass.

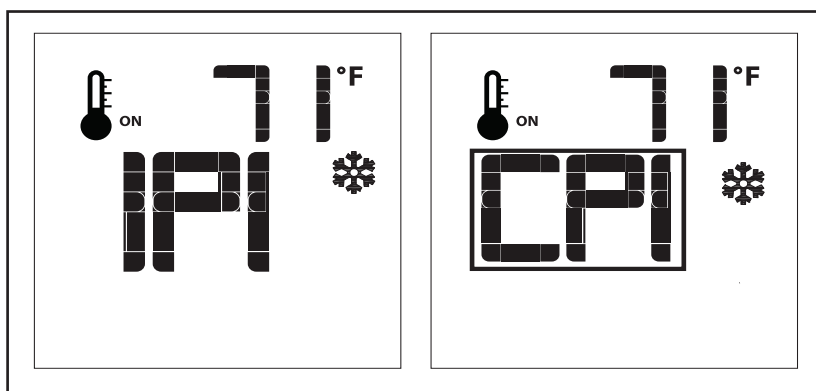


Figure 9: CPI Pilot Mode.

OPERATING INSTRUCTIONS

Turn off the Appliance

Press the ON/OFF Key on the Transmitter. The Transmitter LCD display will only show the room temperature and Icon (see Figure 10). A single “beep” from the IFC confirms reception of the command and both the pilot light (if the unit is not set to continuous pilot) and main burner will turn off.

Room Thermostat (Transmitter Operation)

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room. To activate this function, press the Thermostat Key (see Figure 5). The LCD display on the Transmitter will change to show that the room thermostat is “ON” and the set temperature is now displayed (see Figure 10). To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter.

Smart Thermostat (Transmitter Operation)

The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperatures. As the room temperature gets closer to the set point the Smart Function will modulate the flame down. To activate this function, press the Thermostat Key (Figure 4) until the word “SMART” appears to the right of the temperature bulb graphic (Figure 11). To adjust the set temperature, press the Up or Down Arrow Keys until the desired set temperature is displayed on the LCD screen of the Transmitter.

Remote Flame Control

The Proflame 2 remote control system has six (6) flame levels. With the system on, and the flame level at the maximum in the appliance, pressing the Down Arrow Key once will reduce the flame height by one step until the flame is turned off. The Up Arrow Key will increase the flame height each time it is pressed. If the Up Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the high position. A single “beep” will confirm reception of the command.

Fan Control

The E20I has a convection fan that can be controlled with the Transmitter. The fan speed can be adjusted through six (6) speeds. To control the fan press the Mode key to index to the fan control icon. Use the UP/DOWN arrow keys to turn on, off, or adjust the fan speed. A single beep from the IFC will confirm the command has been received

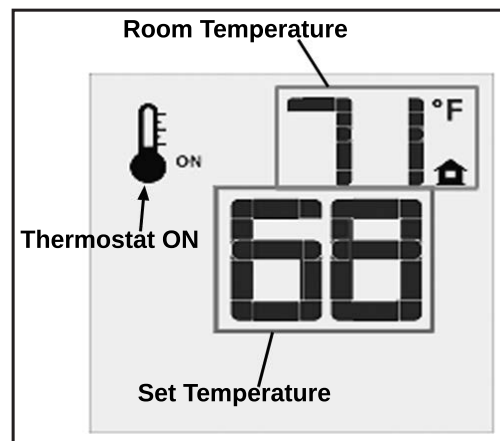


Figure 10: Remote Control Displays Set Temperature.

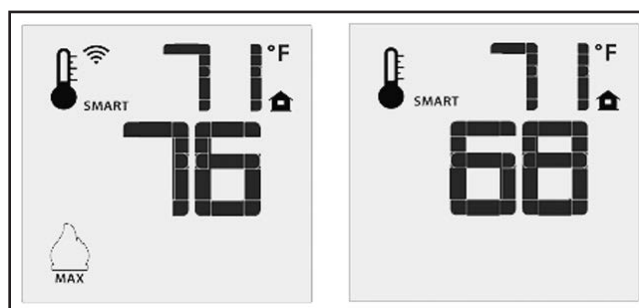


Figure 11: Remote Control's Smart Flame Function.

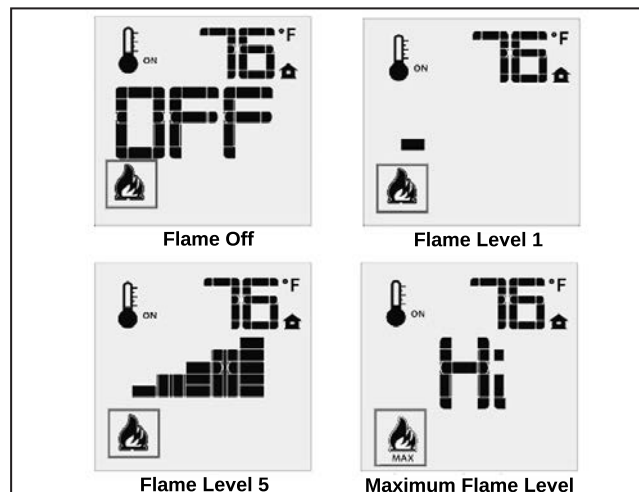


Figure 12: Remote Control's Flame Levels.

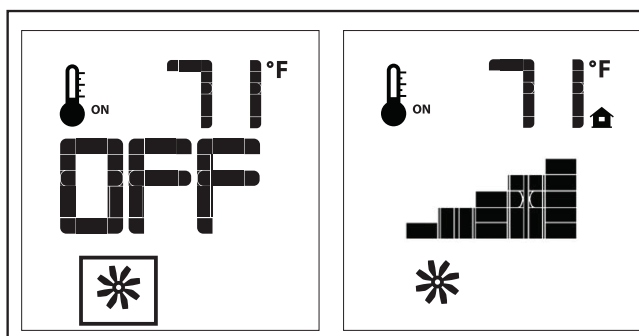


Figure 13: Fan Control

OPERATING INSTRUCTIONS

Auxiliary Control

This function is not used on the E20I and can be disregarded.

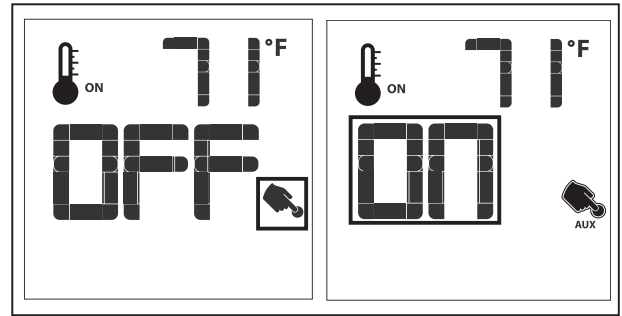


Figure 14: Auxiliary Control (not used)

Dimmer Control

This function is not used on the E20I and can be disregarded.

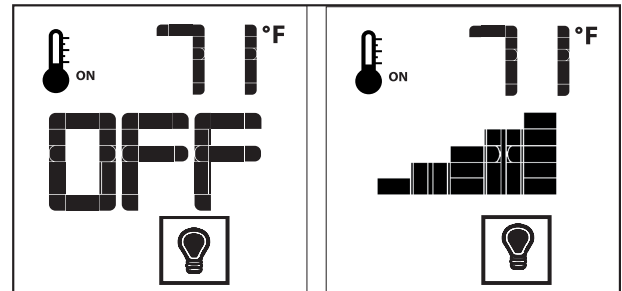


Figure 15: Dimmer Control

Key lock

This function will lock the keys to avoid unsupervised operation. To activate this function, press the Mode and UP keys at the same time and the a lock will appear (see Figure 16). To de-activate this function, press the Mode and UP Keys at the same time.

Low Battery Power Detection

Transmitter: The life span of the remote control batteries depends on various factors: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point etc. When the Transmitter batteries are low, a Battery Icon will appear on the LCD display of the Transmitter (see Figure 17) before all battery power is lost. When the batteries are replaced this icon will disappear.

IFC: The life span of the IFC batteries depends on various factors during a prolonged power outage: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point etc. When the IFC batteries are low, No "beep" will be emitted when it receives an On/Off command from the Transmitter. This is an alert for a low battery condition for the IFC. When the batteries are replaced the "beep" will be emitted from the IFC when the ON/OFF Key is pressed (See INITIALIZING THE SYSTEM FOR THE FIRST TIME).

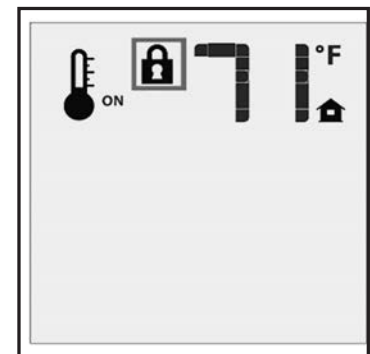


Figure 16: Key Lock

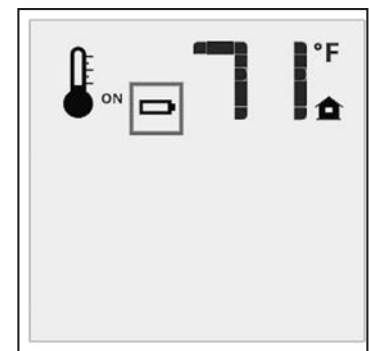


Figure 17: Low Battery

WARNING: Fire Hazard. Can cause severe injury or death. The Transmitter causes ignition of the appliance. The appliance can turn on suddenly. Keep away from the appliance burner when operating the remote system.

WARNING: Shock Hazard. Can cause severe injury or death. This device is powered by line voltage. Do not try to repair this device. In no way is the enclosure to be tampered with or opened. Disconnect from line voltage before performing any maintenance.

CAUTION: Property Damage Hazard. Excessive heat can cause property damage. The appliance can stay lit for many hours. Turn off the appliance if it is not going to be attended for any length of time. Always place the Transmitter where children cannot reach it.

MAINTENANCE AND SERVICE

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. 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.

CLEANING THE GLASS:

When the fireplace is cool, remove the glass door. See MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL. 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 behind the glass, a temporary problem. The glass will need cleaning after the fireplace has cooled off from 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 painted 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.**

CLEANING THE FIREBOX:

Remove the logs carefully, as they are very fragile. Gently remove all the embers and rock wool and place on a paper towel. Vacuum the bottom of the firebox thoroughly. Carefully clean any dust off the logs and remove any lint from the burner and pilot. At this time, inspect the burner pan for cracking or severe warping. If a problem is suspected, contact the dealer. Check the logs for deterioration or large amounts of soot; a small amount on the bottom side of the logs is normal. Replace the logs and embers as in the SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION section. If new/more embers and rock wool are required, contact your nearest ENVIRO dealer.

REPLACING THE GLASS:

The glass in the fireplace is a high temperature ceramic. If the glass is damaged in any way, a factory replacement is required (see PARTS LIST). 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. Removal and replacement of the glass from the door **must** be done by a licensed or qualified service person. **The glass must be purchased from an ENVIRO dealer. No substitute materials are allowed.**

CHECK PILOT AND BURNER FLAMES:

Periodically do a visual check of the pilot flames. One flame should encompass the ignitor and thermocouple and the other should burn over the burner ports (see Figure 18). Also check that the burner is operating correctly, refer to Figure 64.

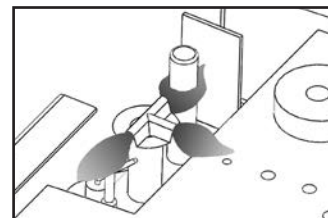


Figure 18: Pilot Flame

MAINTENANCE AND SERVICE

GLASS DOOR REMOVAL:

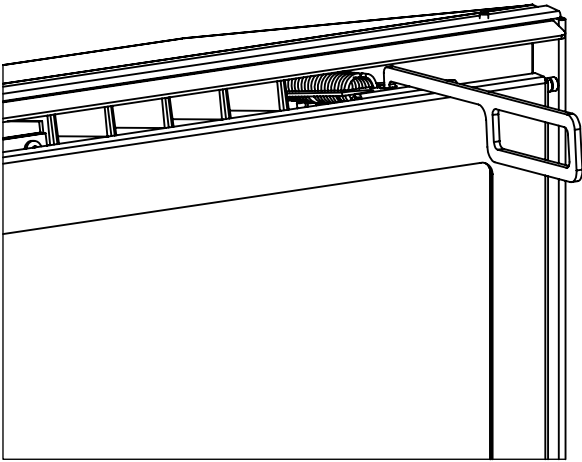


Figure 19: Door Release.

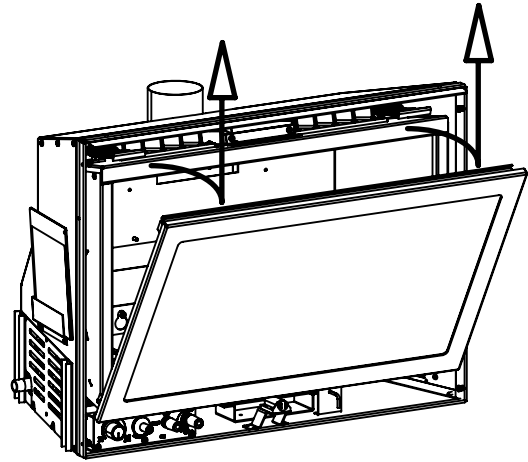


Figure 20: Door Removal.

Remove the glass door by placing the hooked end of the door release tool in the hole on the door latch mechanism (see Figure 19) and pulling the latch out then up over the lip on the door. When the two (2) latches have been released, tilt the door forward and then lift up to unhook the bottom door tabs (see Figure 20).

Warning: Do not touch or attempt to remove the glass if the fireplace is not completely cool.
Never operate the fireplace with the glass removed.

CAUTION GLASS MAY SEPARATE FROM DOOR.

CLEANING THE PAINTED SURFACES:

Painted faces should be periodically wiped with a damp cloth.

MAINTENANCE AND SERVICE

REMOVING VALVE COVER:

The valve cover can be removed to access the gas valve, the fan, wiring harness, or other components.

1. Remove the glass door as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.
2. Carefully remove the log set, ember material, and brick panels, refer to SECONDARY INSTALLATION - BRICK PANEL INSTALLATION and SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION.
3. Using a T-20 screwdriver remove the two (2) screws that hold the burner tray in place (pointed out in Figure 21). Pick up the burner tray at the front (see Figure 22) then pull it out of the firebox.
4. Using a T-20 screwdriver remove the six (6) screws that hold the valve cover in place (pointed out in Figure 23). Pick the valve cover up then out of the firebox (see Figure 24).

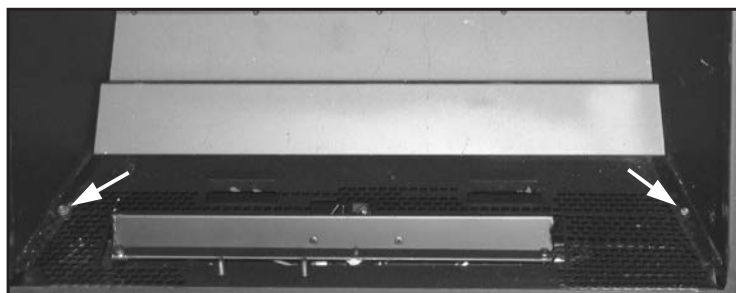


Figure 21: Screws Holding Burner Tray in Place.



Figure 22: Removing Burner Tray.



Figure 23: Screws Holding Valve Cover in Place.

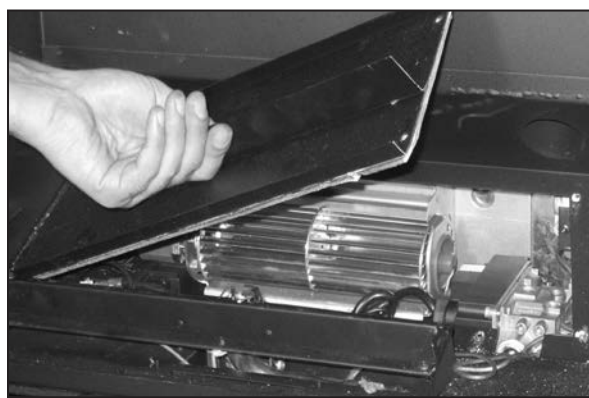


Figure 24: Removing Valve Cover.

FUEL CONVERSION:

TO BE INSTALLED BY A QUALIFIED SERVICE AGENCY ONLY

Please read and understand these instructions before installing.

Warning: This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. 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 manufacturer's instructions supplied with the kit.

MAINTENANCE AND SERVICE

Kit Parts List:

- | | |
|--|--|
| 1 - Orifice (Natural Gas #44 DMS or Propane #55 DMS) | 1 - Stepper Motor (Natural Gas or Propane) |
| 1 - Conversion label | 1 - Installation instruction sheet |

Carefully inspect the orifice supplied with this conversion kit. If it has been damaged or is missing, contact your dealer, distributor or courier company to have them replaced before starting this installation.

Conversion Kit Installation:

1. Shut the gas supply off at the shut-off valve upstream of the unit. **CAUTION:** The gas supply must be shut off prior to disconnecting the electrical power and before proceeding with the conversion. Allow the valve and unit to cool down to room temperature.
2. Remove the glass door as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.
3. Carefully remove the log set and ember material if they are installed.
4. Using a T-20 screwdriver, remove the four (4) screws that hold the burner in place (pointed out in Figure 25). Slide the burner to the left (see Figure 26), then up and out of the firebox.
5. Convert the burner orifice:
 - a) Remove the main burner orifice with a $\frac{1}{2}$ inch deep socket (see Figure 27).
 - b) Put a bead of pipe-thread sealant or approved Teflon tape on the orifice threads before installing into the brass elbow.
 - c) Install the new orifice from the kit into the steel adapter nut (see Figure 28).
6. Convert the pilot:
 - a) Using a $\frac{7}{16}$ " wrench, turn the pilot head a $\frac{1}{4}$ turn counter-clockwise (shown in Figure 29).
 - b) Push the slider, with your finger or flat head screwdriver, to the left if it is to be set for natural gas or to the right for propane, red on the slider will be visible (see Figure 30).
 - c) Turn the pilot head a $\frac{1}{4}$ turn clockwise; back to its original position.

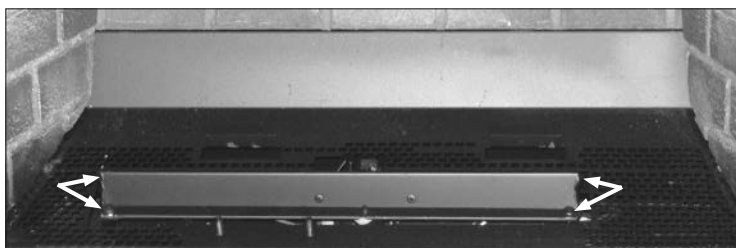


Figure 25: Unfastening Burner.

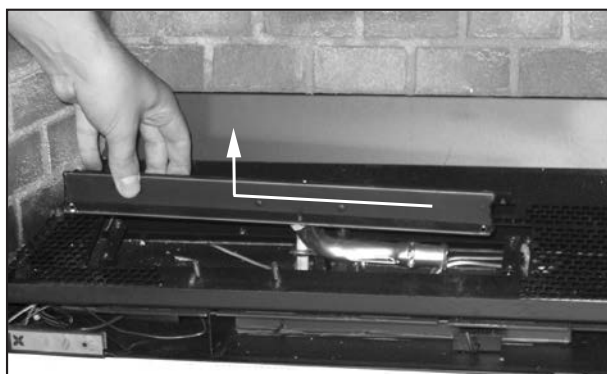


Figure 26: Burner Removal.



Figure 27: Orifice Removal.



Figure 28: Orifice Replacement.



Figure 29: Turn Pilot Head.

MAINTENANCE AND SERVICE

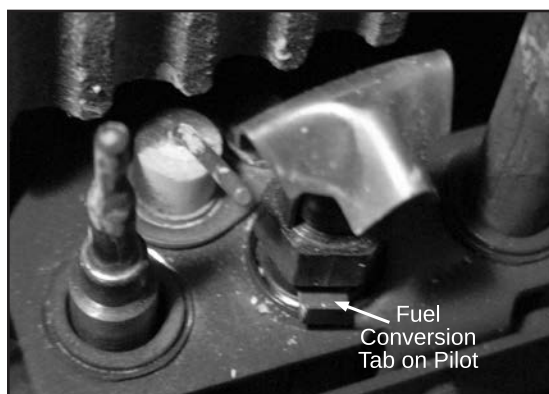


Figure 30: Fuel Conversion Tab on Pilot.

7. Convert the SIT gas valve:
 - a) Use a T-20 driver to remove the two screws that hold the servo regulator to the gas valve and disconnect the wire harness from the IFC.
 - b) Remove the rubber regulator diaphragm that is situated between the servo regulator and the valve body. The new servo regulator already has this diaphragm installed.
 - c) Install the LP servo regulator, with the new longer T-20 screws included in the kit and connect the harness to the IFC.
8. Reinstall the burner, fire grate, log set, and glass door. Also refer to **SECONDARY INSTALLATION - LOG SET INSTALLATION** in your Owner's Manual. When re-installing the burner, ensure that the burner to pilot hood and shield relationship is similar to what is shown in Figure 28.
9. Reconnect the main gas line if it was disconnected and open the shut-off valve at the gas line to the unit.
10. Reconnect the electrical power to the unit.
11. Use a small brush to apply a warm soapy water solution to all gas connections (use a half dish soap and half warm water). If a gas leak is present, bubbling will occur. Gas leaks can be repaired by using an approved pipe thread sealant or approved Teflon tape. **NEVER USE AN OPEN FLAME WHEN TESTING FOR LEAKS.**
12. Relight the pilot and confirm the flame properly covers the flame sensor. Should the pilot require adjustment, turn the adjustment screw (figure 42, page 28) clockwise to decrease or counterclockwise to increase until the correct flame is achieved.
13. Relight the main burner in both the "HI" and "LO" positions to verify proper burner ignition, operation and proper flame appearance. Confirm the inlet and manifold pressures are within the acceptable ranges as directed in section **INITIAL INSTALLATION - GAS LINE CONNECTION AND TESTING**. If the E20 has been installed at an altitude higher than 2000ft (610m) it is required to de-rate the unit accordingly:

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).
14. **MAKE SURE** that the conversion label is installed on or close to the rating label to signify that the unit has been converted to a different fuel type

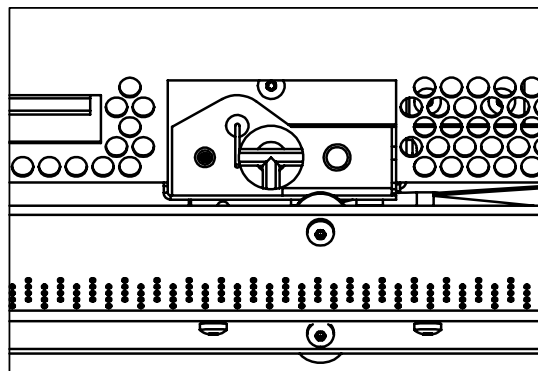


Figure 31. Pilot assembly beside the burner

INITIAL INSTALLATION

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.

CLEARANCES TO COMBUSTIBLES:

Maintain sufficient clearances for operation, service and maintenance.

- A clearance of 7½" (191 mm) minimum is required from the side of the unit to the sidewalls.
- A clearance of 4½" (114 mm) minimum is required from the side of the unit to a 6" (152 mm) deep post/column.
- Minimum clearance for any ¾" combustible facing is 37½" (953mm) from the bottom of the unit.
- A 3 ½" (89 mm) wide mantel can be mounted at a minimum height of 37½" (953 mm) from the bottom of unit.
- A 10" (254 mm) wide mantel can be mounted at a minimum height of 38 ¼" (972 mm) from the bottom of unit.
- A 12" (305 mm) wide mantel can be mounted at a minimum height of 39 ¾" (1010 mm) from the bottom of unit.
- A non-combustible material must be installed under the unit.
- No floor protection is required for any install height. However it is still recommended to use 12" of floor protection especially when carpet or linoleum flooring are used in front of the insert.

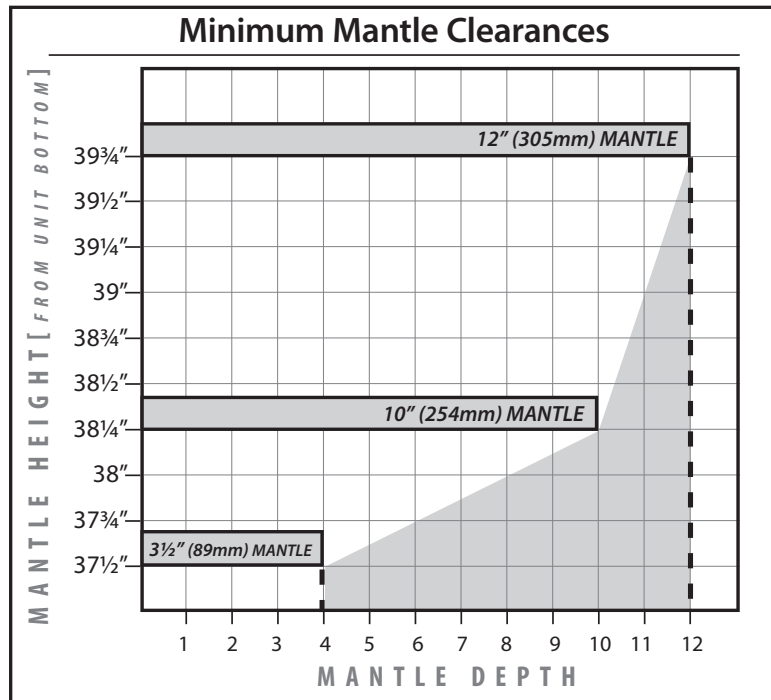


Figure 32: Mantle width and height.

MINIMUM FIREPLACE SIZE:

Table 3: Minimum dimensions of fireplace for E20 to be installed into.

	Width At Front	Width At Back	Height	Depth
Fireplace Dimensions	24 ¼" (616 mm)	18 ⅞" (460 mm)	18 ⅜" (462 mm)	14" (355 mm)

DIRECT VENT:

WARNING: This appliance has been designed to draw room air for proper heat circulation from the sides and bottom of the unit, and out the top front. Blocking or modifying these openings in any way can create hazardous situations.

The vent height for the E20 must be between 10ft (3.05) and 35ft (10.67m).

This model is vented with a 2" intake and a 3" exhaust aluminum or stainless steel flex vent leading into a co-linear to co-axial vent adaptor and using a vertical termination cap. The flue collars of this model will fit inside of a standard 2" or 3" vent and may be fastened directly to the vent. The exhaust vent is on the top of the flue connector. The air intake is on the angled back of the vent collar plate. The air intake can be increased to a standard 3" size using Adaptor (50-1499 - 2" to 3" Air Intake) included with this unit.

Check periodically that the vents are unrestricted. Also ensure that all direct vent pipes have been properly sealed and installed after routine inspection or cleaning. The air intake and exhaust pipes must be installed in the correct locations on the back of the E20.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

PREPARING YOUR E20 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 both the courier and 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 death or serious injury.
1. Remove the unit from the box and remove all packaging material from the appliance.
 2. Remove door. See MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.
 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. Check that the chimney clean outs fit properly. The flue damper must be fully blocked open or removed for installation of the E20; the smoke shelves, shields and baffles may be removed if attached by mechanical fasteners. **IMPORTANT:** Cutting any sheet-metal parts of a fireplace, in which the gas fireplace insert is to be installed is prohibited.
 5. If the fireplace opening is lower than 20" (483mm), remove the vent collar plate from the top of the insert by unscrewing the two (2) T-20 Torx screws located on the center top of the stove above the door opening (see Figure 33). Slide the collar plate backwards. Properly secure the vent collar plate to the flexible vent pipe liner(s) previously installed in the chimney. Be careful not to over-stretch the liner(s).
 6. Place the unit part way into the fireplace. Connect the household gas line into the 3/8" NPT receptacle at the lower left rear of the unit using locally approved methods (see INITIAL INSTALLATION - GAS LINE CONNECTION). Place the electric cable so it can be connected to the power supply.
 7. As you push the unit into its final position in the fireplace, if the vent collar plate was removed, reinstall it to the stove by sliding it along the draft hood and secure with the screws previously removed.
 8. Using a T20 driver, adjust the levelling legs to ensure the unit is level and high enough if a base shelf and/or riser is to be installed. There are two (2) levelling legs on each side (shown in Figure 34).

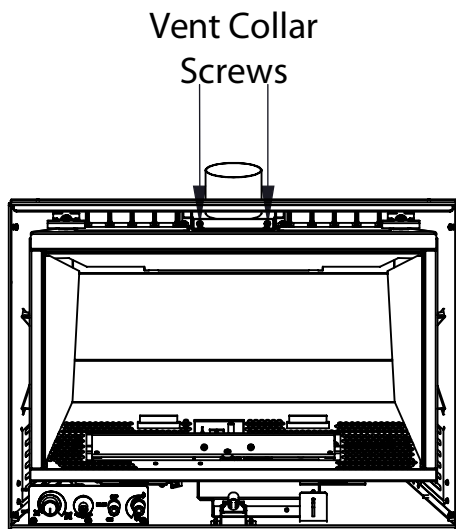


Figure 33: Vent Collar Plate Screw Location.

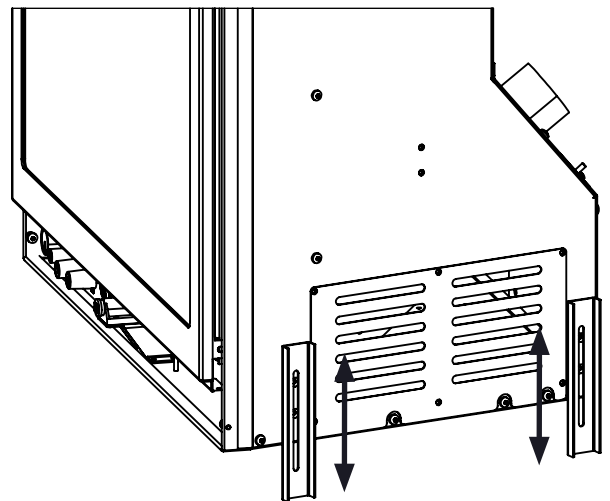


Figure 34: Levelling legs position.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

VENTING FIREPLACE INSERTS:

The Enviro E20 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. Before starting, refer to INITIAL INSTALLATION - PREPARING YOUR E20 FOR INSTALLATION. Please reference the information in Table 4 and Figures 35, and 38.

An approved chimney liner and rain cap must be used. A throat connector or flashing **must** be installed to ensure a tight seal, top performance, safety and efficiency. Carefully follow the manufacturer's instructions that accompany the chimney liner kit. Use Flexmaster double walled aluminum flex vent (3" flex conversion piece and 4"x 6 5/8" cap) from any of the following approved products; American Metal Products (Amerivent Direct), Security Chimneys (Secure Vent), Selkirk Metalbestos (Direct-Temp), Simpson Dura-Vent (Direct Vent GS), and (ICC Excel Direct). If necessary, remove the vent collar plate from the top of the insert and connect it securely to the liner 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. Provide for proper and adequate venting and air supply for this appliance in accordance with the tables in the current National Fuel Gas Code, Z223.1/NFPA 54 or the CSA B149.1.

NOTE: If the E20 unit is pulled out of its installation, and the vent air intake system is disconnected for any reason, ensure that the vent-air intake pipes are re-sealed with high-temperature sealant or silicone and reconnected with three (3) sheet metal screws evenly spaced.

Table 4: Vent termination clearances

Minimum Clearance	Description
3 ft (0.9 m)	Clearance above the highest point where it passes through a roof surface, refer to Figure 28.
24 in (0.6 m)	Clearance above a roof ridge, any other portion of a building, or any other obstruction within a horizontal distance of 10 feet (3 m), refer to Figure 28.
5 ft (1.5 m)	Clearance for a vent or chimney above either the highest connected appliance draft hood outlet, or flue collar.
6 ft (1.83 m)	Clearance to mechanical air supply inlet.
3ft (0.9m)	Clearance to each side of center line extended above meter/regulator assembly.
6 ft (1.83 m)	Radial clearance around service regulator vent outlet.
12 in (30 cm)	Clearance above grade, verandah, porch, deck, or balcony.
3 ft (0.9 m)	Clearance to a building opening or combustion air inlet of another appliance, except with the approval of the authority having jurisdiction for the following reduced clearances.
9 in (0.23 m)	Exception for inputs up to and including 50,000 Btu/h (15kW)
12 in (0.3 m)	Exception for inputs exceeding 50,000 Btu/h (15kW) but not exceeding 100,000 Btu/h (30kW)

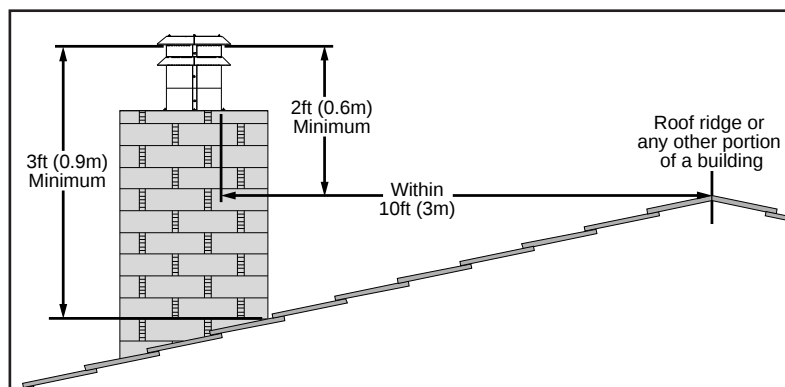


Figure 35: Roof Clearances.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

DIRECT VENT VERTICAL VENT TERMINATION:

For use with E20 Direct Vent Fireplace Insert. The Vertical Vent Cap is termination, rain cap, and a throat connector, it will ensure a tight seal, top performance, safety and efficiency.

KIT COMPONENTS:

Quantity	Description	Quantity	Description
1	Vertical Direct Vent Termination Cap	1	4 oz Tube RTV Silicone
6	$\frac{9}{16}$ " Tex Screws	1	4 oz Tube Mill-Pac Sealant

Please ensure that all components are supplied with this kit. If components are missing or have been damaged, contact your dealer, distributor, or courier company. Do not attempt the installation if components are missing or damaged.

INSTALLATION INSTRUCTIONS:

1. Plan your installation and clearances to combustibles. The E20 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. Also refer to the INITIAL INSTALLATION - PREPARING YOUR E20 FOR INSTALLATION and CLEARANCES TO COMBUSTIBLES sections. Refer to Figure 38 throughout installation.

2. Stretch both the $\varnothing 3$ " (76mm) flex vent and the $\varnothing 2$ " (51mm) flex intake liner to the length needed to ensure the flex can be easily connected to the vent terminal.

3. Install the flex pipe assembly up through the chimney, ensure that the pipe slides through far enough to connect onto the Vertical Vent Cap.

Note: For any chimney over 15' (4.6m), install the E20 15' 2" & 3" Flex Vent (part #50-1512) and the E20 2" & 3" Flex Couplers (part #50-1513). Place a bead of sealant on the coupler (Mill-Pac Black sealant for the $\varnothing 3$ " (76mm) and high temperature silicone for the $\varnothing 2$ " (51mm)) Slide the meeting ends of the flex over the coupler and fasten each joint in place with three (3) sheet metal screws through the flex and into the coupler.

4. The Vertical Vent Cap can be installed onto chimneys with flue openings up to 16" (406mm) x 16" (406mm) and the actual flashing is 18"x18" (refer to Figure 36). If the chimney is smaller the cap should be trimmed down and folded over.

5. Apply a bead of Mill-Pac Black sealant to the top section of the $\varnothing 3$ " (76mm) vent collar plate. Slide the $\varnothing 3$ " (76mm) flex vent over the flue collar and secure with three (3) sheet metal screws evenly spaced.

Note: If fireplace opening is lower than 19" (483mm), remove the vent collar plate from the top of the insert (see INITIAL INSTALLATION - PREPARING YOUR E20 FOR INSTALLATION) and connect it securely to the liner as stated in Step 4. Check for tears in the liner at this point.

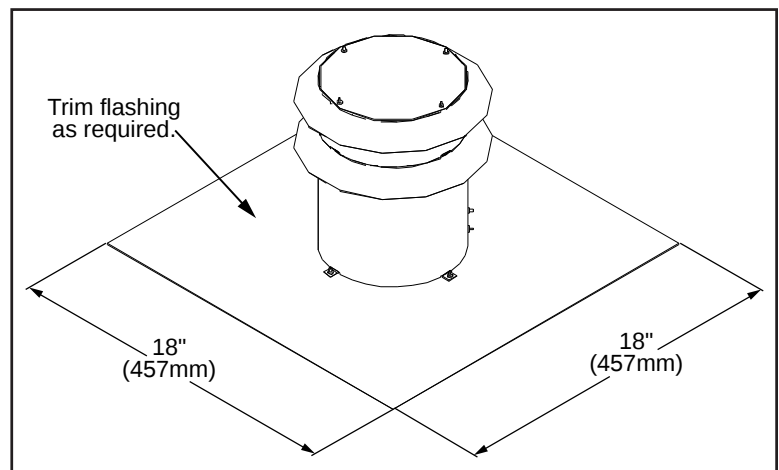


Figure 36: Vertical Vent Cap Dimensions.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

6. Place a bead of high temperature silicone on the intake collar of the fireplace, slide the Ø2" (51mm) flex intake liner over the collar, secure the flex liner with three (3) sheet metal screws evenly spaced.
7. At the top of the chimney, apply a bead of Mill-Pac Black sealant to the Ø3" (76mm) pipe of the vent terminal (refer to Figure 37). Slide the flex liner onto the vent terminal and secure with three (3) sheet metal screws evenly spaced.
8. Place a bead of high temperature silicone on the intake collar of the vent terminal (refer to Figure 30). Slide the Ø2" (51mm) flex intake liner over the collar, secure the flex liner with three (3) sheet metal screws evenly spaced.
9. Make a tight connection between the gas fireplace insert flue collar and the fireplace chimney at the top of the chimney. Secure the vent terminal to the chimney using adequate sealant, and according to local building codes.
10. Light the E20 and ensure proper operation and proper flame appearance. The amount of air to the venturi may need to be adjusted using the rod under the firebox (see Figure 4). Also refer to Figure 64 for a flame appearance picture.

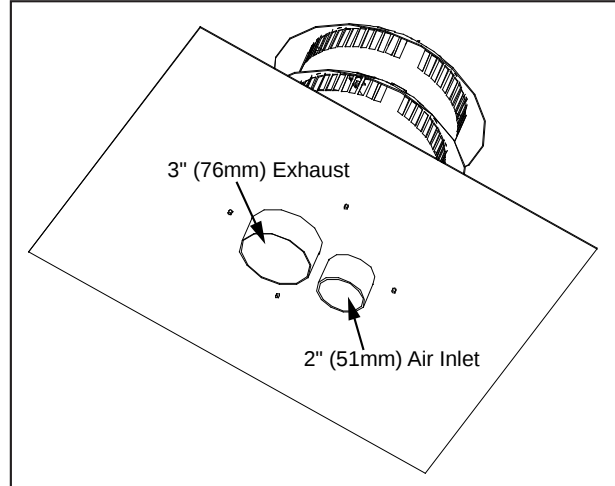


Figure 37: Vertical Vent Cap Underside.

COLD CLIMATES:

NOTE: In cold climates, additional insulation may be used on some venting. It is recommended in cold climates to wrap the exhaust and intake venting for the final few feet before termination.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

SOLID FUEL FIREPLACE INSTALLATION:

The base, sidewalls and top structure of the solid fuel firebox cannot be altered with the exception of: removal of dampers, removal of smoke shelf or baffle, removal of ember catches, removal of log grate, removal of viewing screen/curtain, and removal of doors. THE ORIGINAL FIREPLACE MAY NEVER BE RETURNED TO SOLID FUEL USE IN THIS CONDITION.

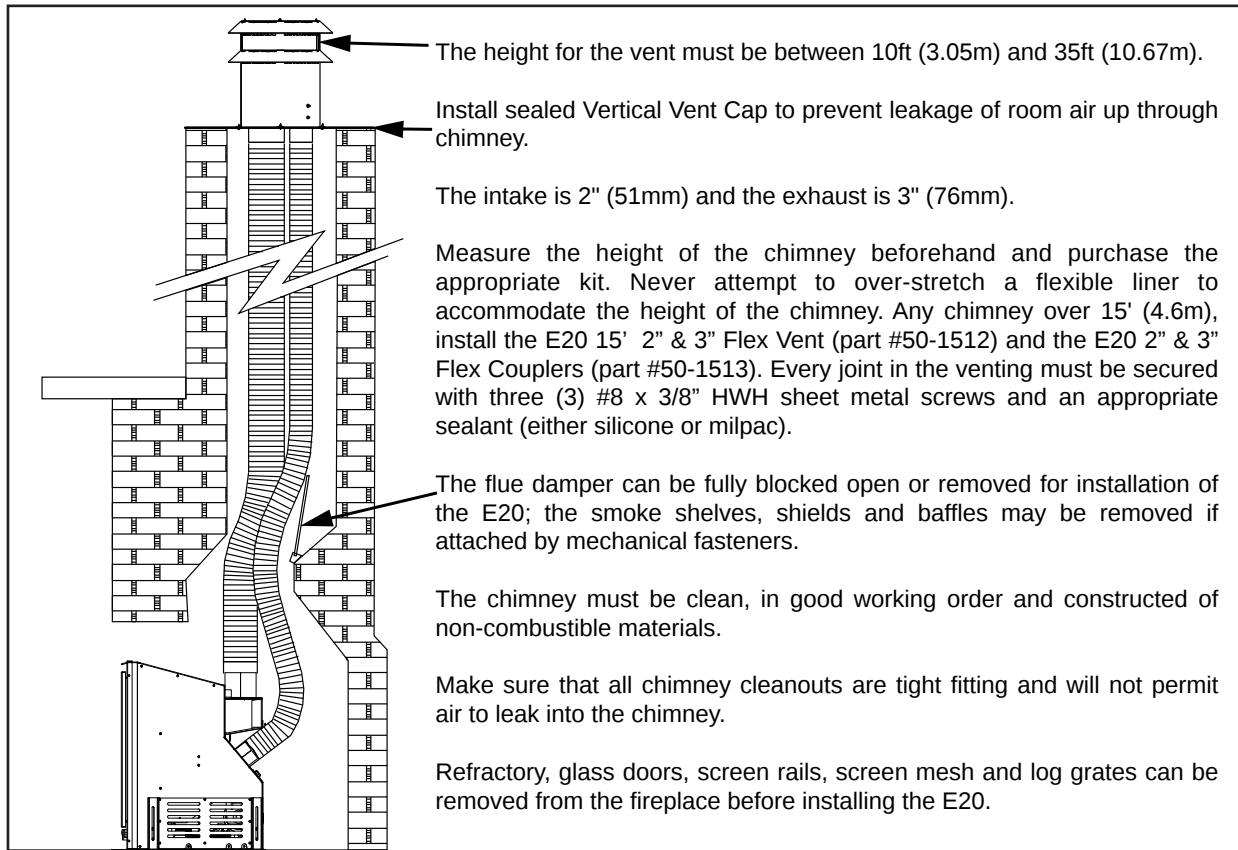


Figure 38: Installation of E20 DV

IMPORTANT: If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1.5 inch (37.5 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed. Cutting any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed is prohibited. The label plate shown below, included with the E20, must be permanently attached inside the cavity of the fireplace in a visible location.

WARNING: This fireplace has been converted for the use with a gas fireplace insert only and cannot be used for burning wood or solid fuels unless all original parts have been replaced, and the fireplace re-approved by the authority having jurisdiction.

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INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

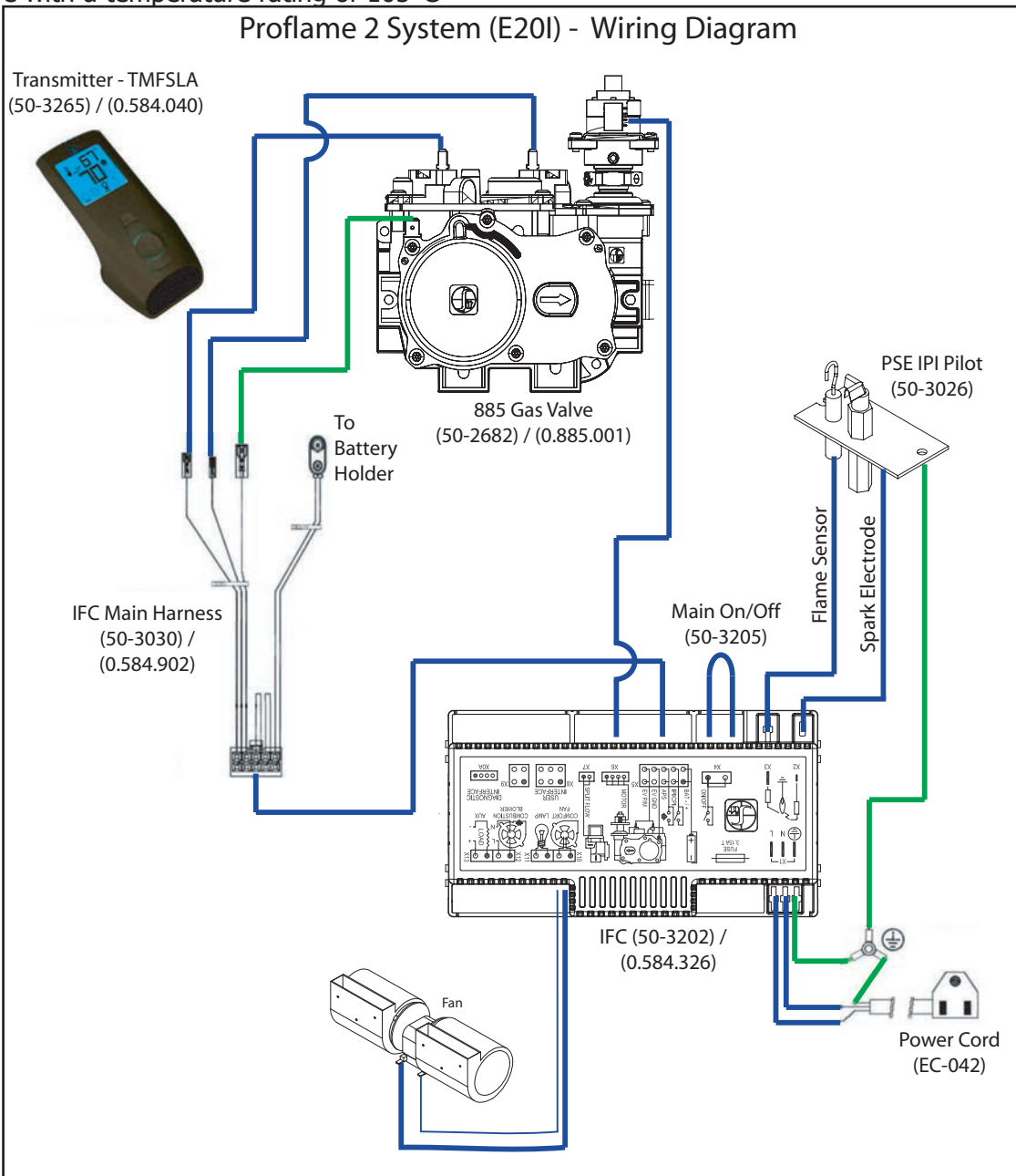
ELECTRICAL REQUIREMENTS:

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. The unit 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.

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

If any of the original wire as supplied with the appliance must be replaced, it must be replaced with 18 AWG wire with a temperature rating of 105°C



INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

GAS LINE CONNECTION & TESTING:

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

Gas Line Connection:

- This stove is equipped with a certified flexible pipe located on the right side of the unit terminating in a 3/8" Male NPT fitting. Consult your local authorities codes or the CAN/CGA B 149 (1 or 2) installation code in Canada, or in the USA gas installations follow either local codes or the current edition of the National Fuel Gas Code ANSI Z223.1.
- The efficiency rating of this appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.

The appliance and its 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 (3.45 KPa)

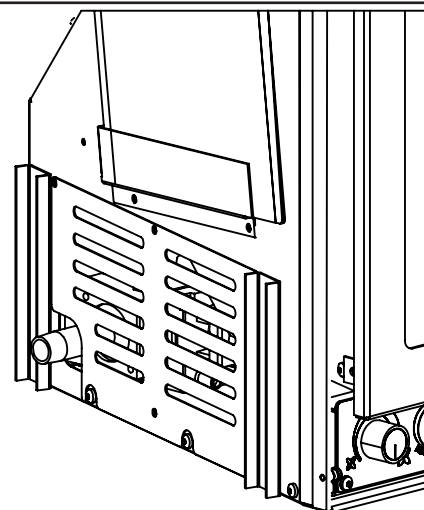


Figure 39: 3/8" NPT Male Pipe Nipple with Cover Attached.

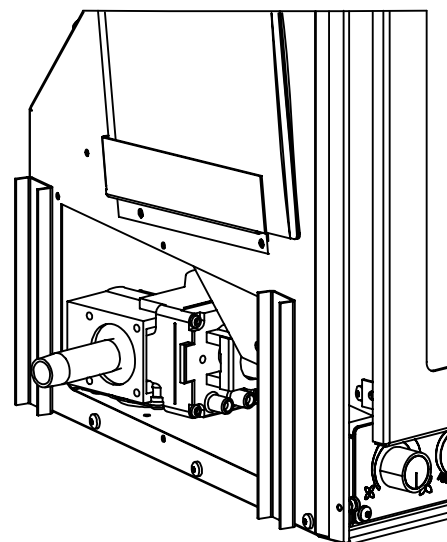


Figure 40: 3/8" NPT Male Pipe Nipple with Cover Removed.

Table 5: Orifice and Pressure Information.

Main Burner	Natural Gas	Propane Gas
Orifice:	#44 DMS	#55 DMS
Manifold Press:	3.8 W.C. (0.95 KPa)	11.0 W.C. (2.74 KPa)
Min. Manifold Press:	1.2 W.C. (0.30 KPa)	2.7 W.C. (0.67 KPa)
Max. Supply Press:	7.0 W.C. (1.74 KPa)	13.0 W.C. (3.28 KPa)
Min. Supply Press:	5.0 W.C. (1.24 KPa)	12.0 W.C. (2.96 KPa)
Max. Input:	25,500 BTU/hr (6.59 KW)	21,300 BTU/hr (6.24 KW)
Min. Input:	12,500 BTU/hr (3.66 KW)	11,400 BTU/hr (3.34 KW)

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

TO TEST VALVE PRESSURES

The pressure taps are located on the top right of the valve shown in Figure 41.

- Turn set screw 1 turn counter clockwise to loosen,
- Place $\frac{5}{16}$ " (8 mm) I.D. hose over pressure tap system.
- Check pressures using a manometer.
- 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.

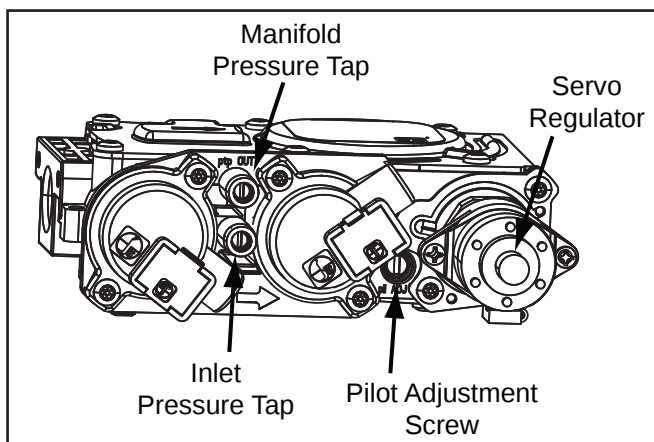


Figure 41: Valve Details.

INITIAL INSTALLATION

QUALIFIED INSTALLERS ONLY

ADJUSTING THE PILOT FLAME:

The pilot flow adjustment is pre-set to maximum at the factory and should not need to be adjusted. The pilot flame should envelope $\frac{3}{8}$ " to $\frac{1}{2}$ " (10 to 13mm) of the thermocouple (see Figure). However, should the need arise, follow Steps 1- 3 below.

- 1a. Follow steps 1-4 in REMOVING VALVE COVER - MAINTENANCE AND SERVICE in order to gain access to the valve from above. The pilot adjustment screw can be found in Figure 41.

OR

- 1b. The adjustment screw can be reached through the front of the unit using an eight inch flat head screw driver (see Figure 35 for location on valve).
2. Turn the adjustment screw clockwise to decrease or counterclockwise to increase pilot flame.
3. If valve cover was removed, re-install it.

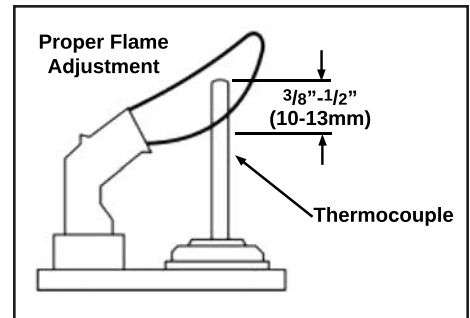


Figure 42: Proper Pilot Flame.

SECONDARY INSTALLATION

OPTIONAL BASE SHELF & RISER:

The E20 Base Shelf (1 $\frac{5}{8}$ " (41 mm) high) and Base Shelf Riser (2 $\frac{1}{8}$ " (54 mm) high) are components that can be combined to create a riser with an overall height of 2 $\frac{3}{16}$ " (55 mm). This shelf can be installed with or without the riser and can be used when the hearth in front of the unit is lower than the fireplace opening. Additional Base Shelf Risers can be fastened together to increase the height in increments of 2 $\frac{1}{8}$ " (54 mm). This Base Shelf may be used in conjunction with any of the E20 surround panel options, and it may also be used with the E20 Trimmable Surround. The Base Shelf and Riser are sold separately.

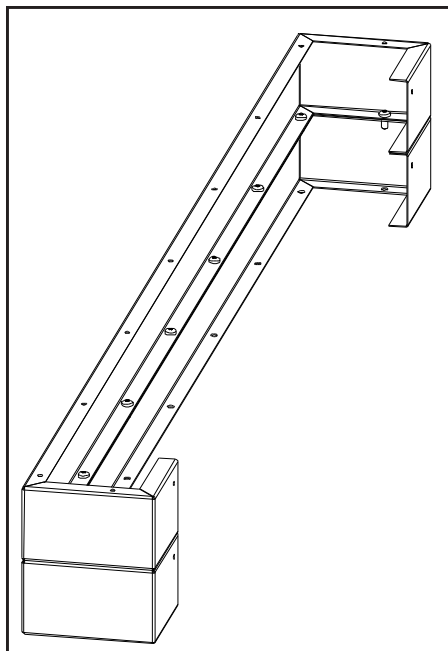


Figure 43: Combining 2 Base Shelf Risers.

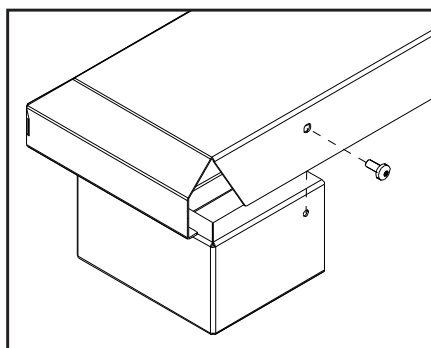


Figure 44: Installing Base Shelf onto Riser.

Installation:

1. If unit is running, turn it off and allow it to cool completely.
2. When using more than one riser each level must be attached using nine (9) #8 T-20 screws provided (see Figure 43).
3. If installing with riser(s) the Base Shelf is to be fastened to the riser(s) with one T-20 screw at each end of the back (see Figure 44).
4. The leveling legs on the E20 may need to be adjusted to match the height of the riser and shelf. Each leveling leg has two (2) screws that can be loosened using a $\frac{1}{4}$ " hex driver. Adjust the leg to the required height and then retighten the screws.
5. Center the Base Shelf assembly in front of the unit flush with the bottom of the unit.
6. Install surround if required.

SECONDARY INSTALLATION

OPTIONAL 3 AND 4 SIDED TRIMMABLE PANELS:

Modifying the Surround Panel:

The E20 Trimable Surround Panels are large rectangular panels that may be cut for use in cases that a non-standard fireplace opening (e.g. an arched opening) is to be filled. Optionally this surround can be left uncut and placed in front of the fireplace opening.

1. Measure the fireplace opening and/or make a template of the fireplace opening.
2. Transfer the measurement to the Trimable Surround.
3. If desired, offset the measurements by approximately $\frac{1}{8}$ " (3mm) to the inside; this will allow for the panel to be placed just inside the fireplace opening for a cleaner appearance.
4. Cut along the preferred line (from direct measurements of offset) and remove any sharp edges.
5. The panel can be touched up with a high temperature metallic black paint available from your dealer.

INSTALLATION:

1. Install the mounting bushings and screws for the trimable panel onto the E20 unit using a T-20 Torx screwdriver.
2. In the case of the 3-Sided Panel, hang the surround on the appropriate hooks depending on the optional surround that will be used with the trimable panel. See Figures 48 and 49.
3. In the case of the 4-Sided Panel, screw the surround onto the unit as shown in Figures 46 and 47.
4. Feed wiring harness from the optional surround panel through the grommet that is installed on the left side of the panel, and install the optional surround panel according to its instructions.

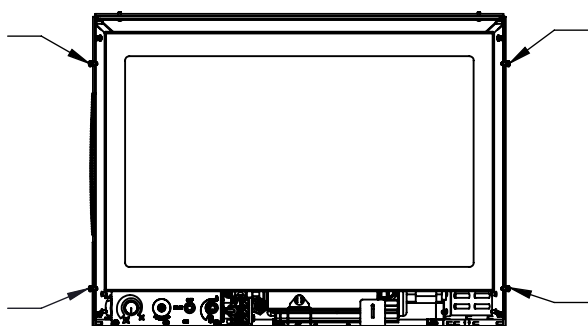


Figure 46: Bushing/Screw Installation Locations.

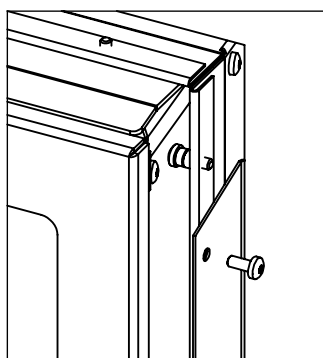


Figure 47: Screw Installation: 4-Sided Panel

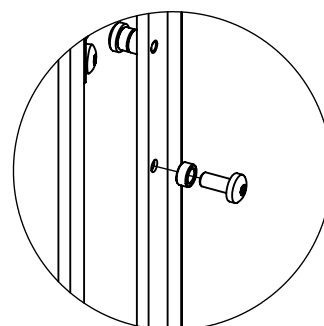


Figure 48: Bushing and Screw: 3-Sided

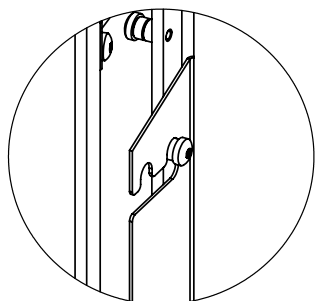


Figure 49: Installation for Regular Surround.

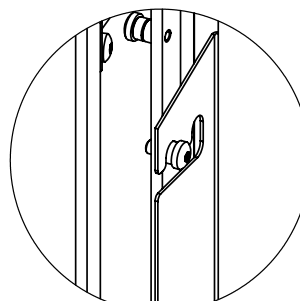


Figure 50: Installation for Contemporary and Extruded Surrounds.

SECONDARY INSTALLATION

SURROUND PANEL INSTALLATION:

Warning: The surround becomes hot when the unit is operating; ensure that the unit is turned off, and that it has cooled to room temperature before beginning this installation.

	Height	Width
3-Sided Surrounds	24" (610 mm)	35 ³ / ₈ " (898 mm)
4-Sided Surround	29 ⁵ / ₈ " (754 mm)	35 ³ / ₈ " (898 mm)

Table 6: Surround Dimensions.

Please check components supplied with this kit. If components are missing or have been damaged, contact your dealer, distributor or courier company before starting this installation.

IMPORTANT: The panel must not seal ventilation openings in the fireplace.

INSTALLATION (3 and 4 sided Surrounds):

Lift the face upright in front of the fireplace with the four (4) hooks pointing towards the fireplace. Slide the hooks over their corresponding bushings (see Figures 51 & 52). Ensure the hooks are secure before releasing the surround. The surround should be wiped with a damp cloth periodically.

REMOVAL:

Lift the surround straight up in order to unhook the notch on the hooks from the bushing. Pull the surround away from the fireplace. Place the surround where it will not be damaged.

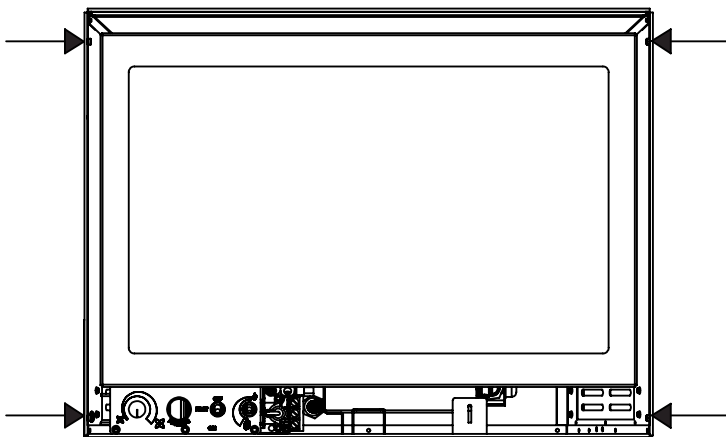


Figure 51: Bushing Locations.

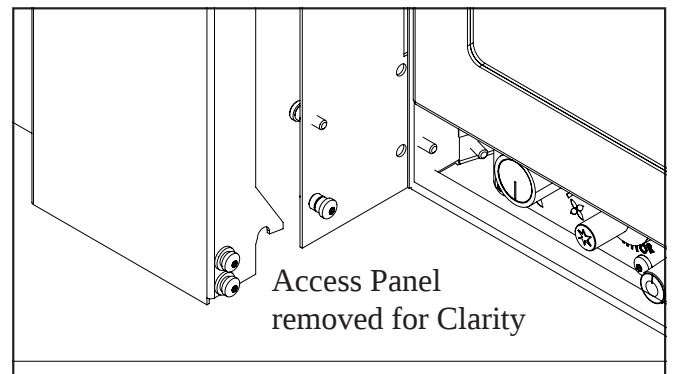


Figure 52: Bushing and Hook Close-Up.

BURNER SWITCH WIRING INSTALLATION:

The burner switch supplied with the surround comes pre-installed and wired. The wiring from the burner switch simply needs to be connected to the wiring on the E20 unit.

The wiring harness for the burner switch has one (1) blue wire, one (1) grey wire and two (2) purple wires.

The blue wire connects to the blue wire on the E20 unit, the grey wire connects to the grey wire on the E20 unit, and the purple wires are used to connect an optional thermostat.

CLEANING:

Painted surfaces should be periodically wiped with a damp cloth. **Never clean the face when it is hot.**

SECONDARY INSTALLATION

SAFETY SCREEN INSTALLATION:

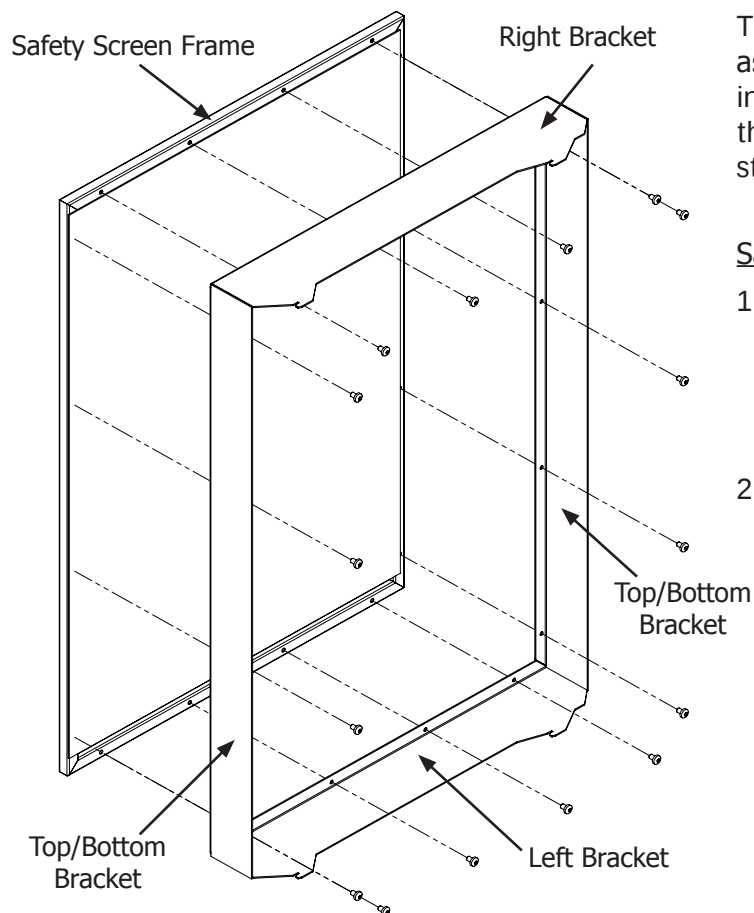


Figure 53: Installing Safety Screen Mounts.

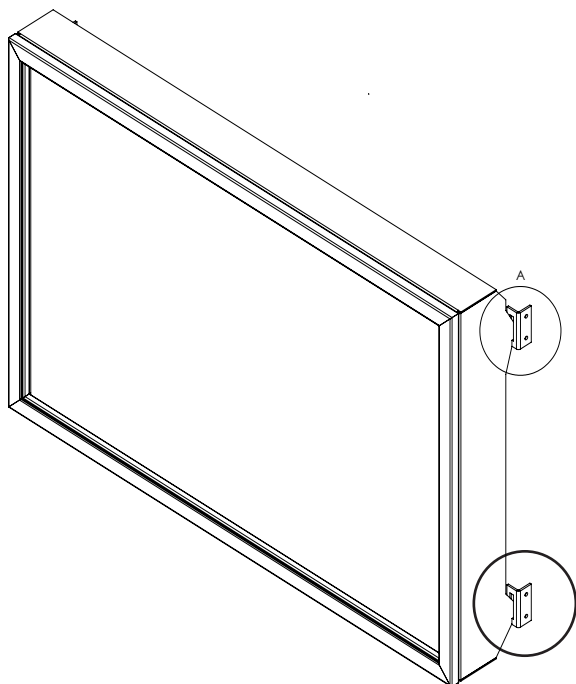


Figure 54: Installing Safety Screen onto Cabinet Bracket (Parts removed for clarity)

The safety screen supplied with the unit must be assembled first before it can be installed. When installed, the screen should not extrude out any farther than the surround panel if the cabinet extensions are still installed.

Safety Screen Assembly

1. Attach the left, right, top/bottom brackets onto the safety screen using a T20 screwdriver and the supplied sixteen (16) #8 T20 screws (see Figure 51). Do not over-tighten the screws, doing so could cause them to strip out of the screen frame.
2. Lift the face upright in front of the fireplace with the four (4) hooks pointing towards the fireplace. Slide the hooks into the corresponding brackets on each side of the cabinet (see Figure 54). Ensure the hooks are secure before releasing the safety screen.

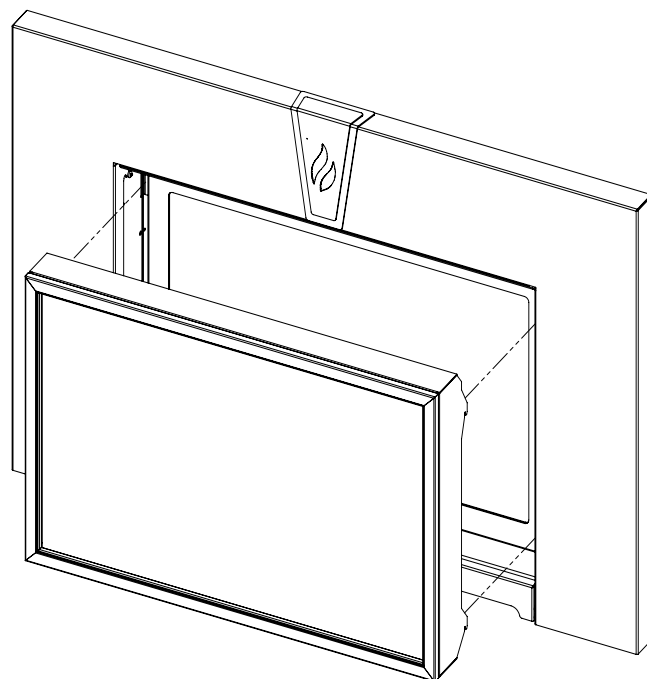


Figure 55: Installing Safety Screen onto Brackets

SECONDARY INSTALLATION

LOG AND GLASS BURNER OPTIONS:

The E20 has two separate burner styles to choose from; a log burner and a glass burner.

Installing the Log Burner:

1. Install the burner tray that comes with the kit into the E20 firebox by hanging the five holes on the back side over the 5 screws that come through the rear of the firebox.
2. Secure the burner tray to the firebox by installing one screw on each side of the tray as shown in Figure 56.
3. With the burner tray installed, refer to SECONDARY INSTALLATION - FIREBOX LINER INSTALLATION and SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION to complete the Log Burner.

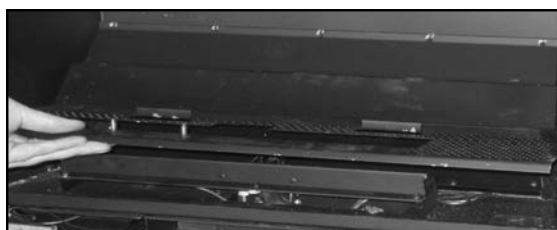


Figure 56: Burner Tray Installation.

Installing the Glass Burner:

1. Install the burner tray that comes with the kit into the E20 firebox by hanging the five holes on the back side over the 5 screws that come through the rear of the firebox.
2. Install the pilot shield extension as shown in Figure 58, the burner has been removed for clarity. The shield will fit around the outside of the pilot shield that is installed in the unit.
3. Secure the burner tray to the firebox by installing one screw on each side of the tray as shown in Figure 57.

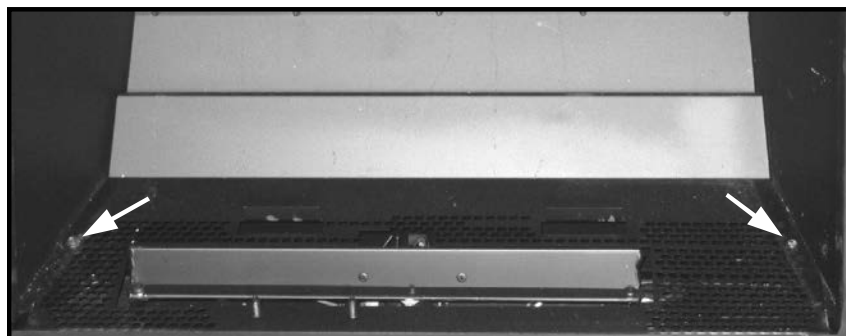


Figure 57: Burner Tray Screws.



Figure 58: Pilot Shield Extension.

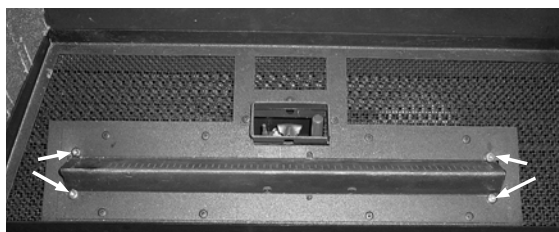


Figure 59: Glass Tray Screws.

4. With the burner tray installed, refer to SECONDARY INSTALLATION - FIREBOX LINER INSTALLATION for installing the firebox liners before moving on to the next step.
5. Install the glass tray and secure it through the burner using the screws provided with the kit (See Figure 5).
6. Pour the glass beads into the tray and evenly distribute over the entire tray (See Figure 60).

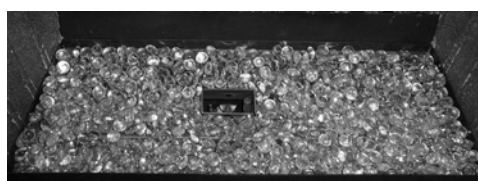


Figure 60: Glass Beads in Place.

SECONDARY INSTALLATION

OPTIONAL ROCKS FOR GLASS BURNER:

1. Pour the glass beads into the tray being careful to leave a space in front of the pilot box (See Figure 61).
2. Add the first large rock in front of the pilot box as shown in Figure 62. It should rest on top of the burner and the pilot box.
3. Add the rock accents as shown in Figure 62 and 63 (**DO NOT PLACE ROCKS IN THE AREA INDICATED**).



Figure 61: Glass Beads in Place.

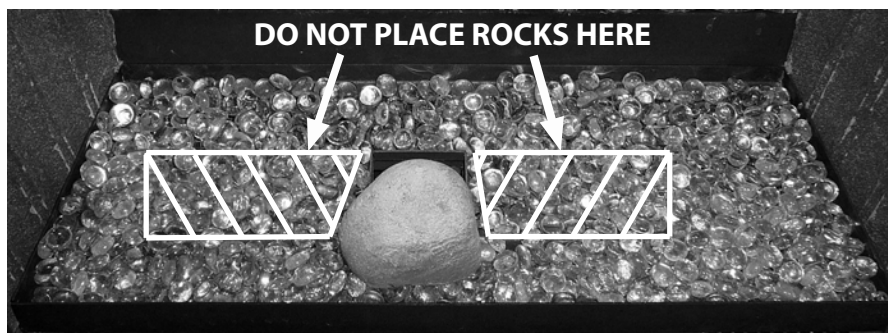


Figure 62: Rock Accent Placement.

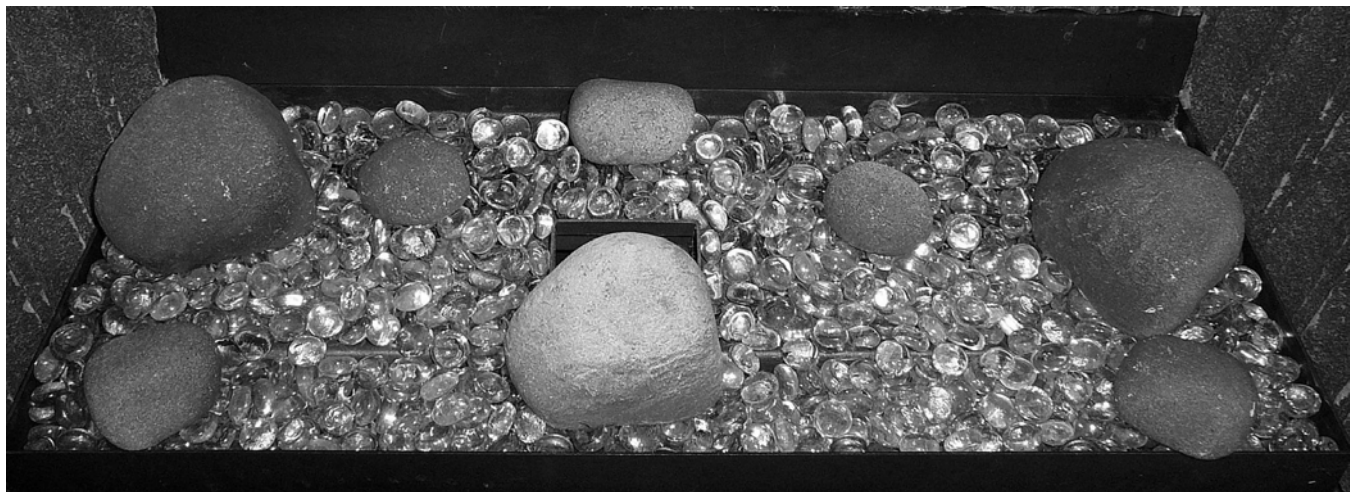


Figure 63: Rock Accent Placement.

SECONDARY INSTALLATION

FIREBOX LINER INSTALLATION:

NOTE: The firebox liners are fragile and should be handled gently.

The following instructions can be used for all firebox liner options. For simplicity, only the brick liner is shown.

1. Ensure the E20 is turned off and allow the unit to cool.

2. Remove the glass door as shown in the MAINTENANCE AND SERVICE - GLASS DOOR REMOVAL.

Warning: Do not touch or attempt to remove the glass if the fireplace is not completely cool.

Never operate the fireplace with the glass removed.

3. Remove the log set and all ember material (if installed).

4. There is a ledge at the back of the firebox (see Figure 63). Place the back brick panel on the ledge and ensure the panel is flush at the bottom and top (refer to Figure 65). Do not push at the center of the panel.

5. Slide the front of the left brick panel into the left lip at the front of the firebox. Ensure the panel is flush to the side of the firebox and the back brick panel while still being hooked behind the front lip (refer to Figure 66). Take care to not bump the brick panel on the burner.

6. Repeat step 6 for right brick panel.

7. Install the log set and ember material (refer to SECONDARY INSTALLATION - LOG SET AND EMBER INSTALLATION) and the glass door.



Figure 64: Back Brick Panel Ledge.



Figure 65: Back Brick Panel in Place.



Figure 66: Side Brick Panels in Place.

SECONDARY INSTALLATION

LOG SET AND EMBER INSTALLATION:

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

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 and one of the logs come with locator pins and ledges, which make alignment easier. Using the pictures provided, carefully set the logs in place (see Figures 67 through 74).

Figure 67: The empty firebox showing the ledges for the back log.

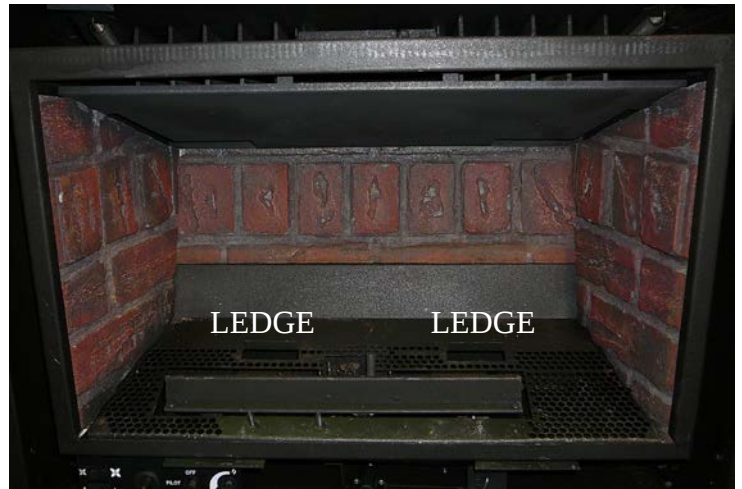


Figure 67. Empty firebox.



Figure 68. First Stage Log Set Installation.

Figure 68: The **back log** rests behind the two ledges pointed out in Figure 67. The front of the log rests at the end of the burner. Ensure it is flush against the left brick panel.



Figure 69. Second Stage Log Set Installation.

Figure 69: The **top left log** rests on the **back log** and utilizes the locator pin pointed out in Figure 67. Ensure it is flush against the left brick panel and against the back wall.

SECONDARY INSTALLATION



Figure 70. Third Stage Log Set Installation.



Figure 71. Fourth Stage Log Set Installation.



Figure 72. Fifth Stage Log Set Installation.

Figure 70: The center of the **right log** fits against the **back log**. The front of the log is to rest on the burner and the back end of the log rests on the back brick panel. Ensure the log does not block any burn ports.

Figure 71: The center of the **front log** fits onto the two (2) locator pins on the valve cover tray (see Figure 70).

Figure 72: Place the ember chunks and ember wool irregularly onto and around the front of the burner to create a realistic look. The ember wool comes in chunks that can be ripped into smaller pieces. The front log has been removed for clarity. See Figure 73 for complete log and ember set-up with the front log.

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.

SECONDARY INSTALLATION



Figure 73. Log Set and Ember Installation.



Figure 74. E20 complete log set-up with embers burning.

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. Remove the glass and rearrange the ember material, making sure none of the burner ports air holes are blocked.

Never operate the fireplace with the glass door removed.

TROUBLE SHOOTING

Problem	Possible Cause	Solution
The main burner does not ignite when called for.	The gas valve may not be on.	• Check that the gas control knob is in the "ON" position.
	Thermostat is not calling for heat.	• Adjust the thermostat several degrees above ambient temperature.
	Problem with gas valve.	• Use a DC voltmeter to measure the voltage across the TPTH and TP terminals. Main operator voltage: Open circuit $\geq 325\text{mV}$ Closed circuit $\geq 100\text{mV}$ • If voltage is not present, check the control circuit for proper operation. • If proper control system voltage is present, replace the gas control.
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 300 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."
Remote control doesn't work	Problem with the remote	• One or more of the batteries are dead. See remote control instructions.
	Problem with fireplace	• The on/off switch is turned to OFF. • The gas control valve is turned to PILOT or OFF. • The pilot has gone out.

PARTS LIST

Reference Number	Part Description	Part Number
1	E20 2" to 3" Air Intake Adaptor	50-1499
2	Flue Adapter Gasket	50-3376
-	E20 15' 2" & 3" Flex Vent	50-1512
-	E20 2" & 3" Flex Couplers	50-1513
-	E20 Vertical Vent Cap	50-1487
3	E20 Flue Adaptor	50-3377
4	E20 Cabinet Back	50-2359
5	E20 Owners Manual	50-3375
6	Conversion Kit - LP to NG (IPI)	50-3352
-	Conversion Kit - NG to LP (IPI)	50-3351
7	Blank Orifice	50-343
8	E20 Door Release Tool	50-1500
9	Ember Nuggets Only	50-2347
10	Ceramic Wool Embers Only	50-893
11	Domestic Power Cord (115V)	EC-042
12	Heyco Strain Relief	EC-044
13	E20 Pilot Shield	50-3378
14	E20 Burner Only	50-2358
15	E20 Door Complete	50-2348
16	E20 Glass C/W Gasket (21.75" X 13.575")	50-2349
17	Dual Bulb Door Gasket (10ft)	50-634
18	E20 Valve Cover with Gasket	50-1492
19	E20 Burner Tray Only	50-2357
20	E20 Fan Only	50-2260
21	E20 Fan Mounting Bracket Only	50-1516
22	E20 Fan Assembly Complete	50-2346
23	E20 Door Latch Mechanism (Set of 2)	50-1495
24	E20 Logset (4 pcs)	50-2345
25	Rustic Red Brick Liner - E20	50-2256
26	S.I.T. 885 Valve w/ NG Stepper Motor	50-2682
-	Proflame 2 IFC (0.584.326)	50-3202
-	Proflame 2 IFC Wire Harness (0.584.902)	50-3030
-	Proflame 2 Transmitter (TMFSLA)	50-3265
-	Battery Holder 4 x AA	50-3027

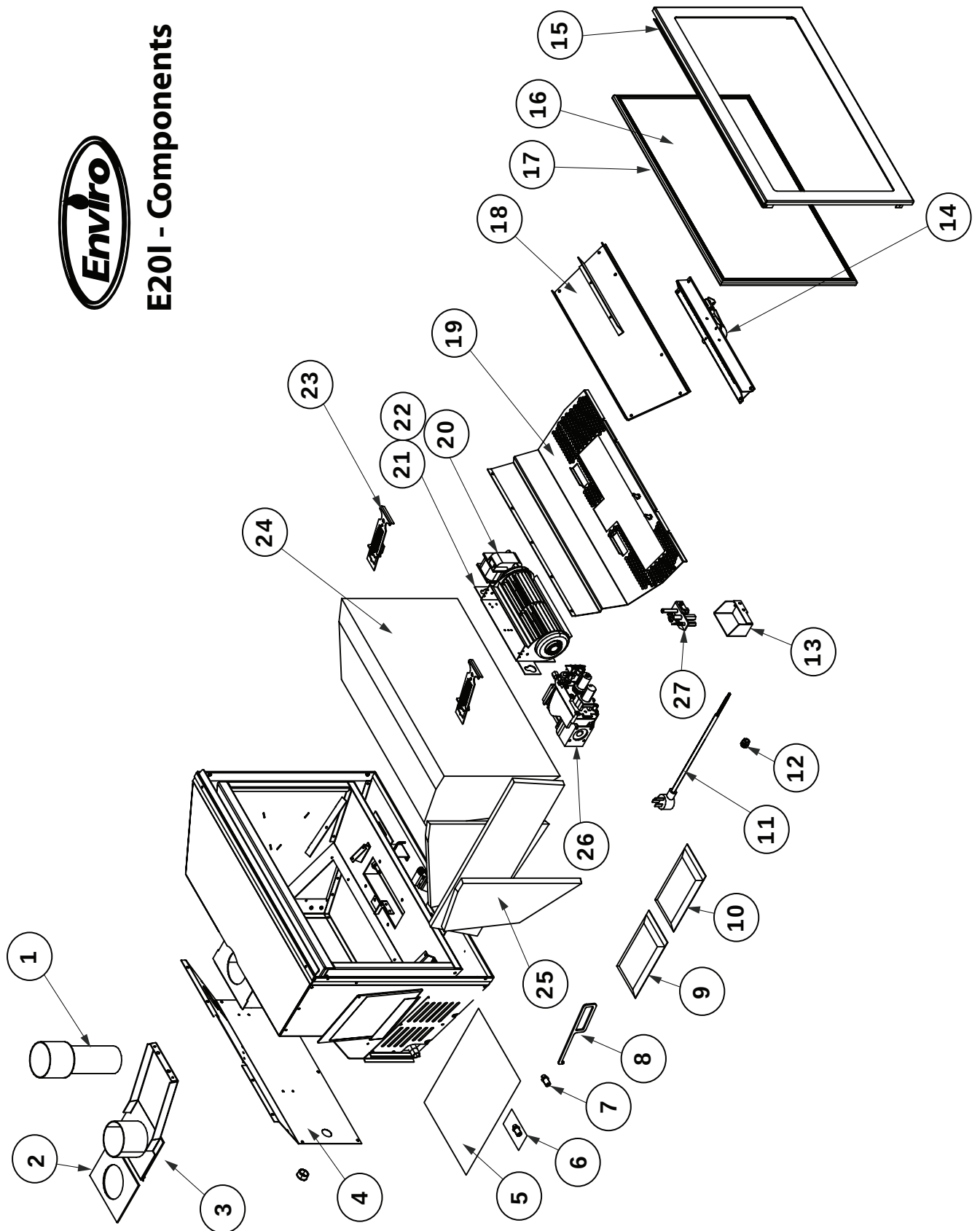
PARTS LIST

27	PSE Pilot Assembly - Intermittant Pilot	50-3026
-	E20 Replacement Safety Screen	50-3071
-	12 oz. Can of Metallic Black Touch Up Paint	PAINT-12-MB
Reference Number	Option Description	Part Number
28	Regular Surround Panel - E20	50-2250
29	Contemporary Surround Panel - E20	50-2252
30	Extruded Surround Panel - E20	50-2253
31	Trim-able Surround Panel - E20	50-2255
-	Rustic Red Brick - E20	50-2256
32	Base Shelf - E20	50-2258
33	Base Shelf Riser - E20	50-2344
-	Fluted Liner - E20	50-2361
-	Porcelain Liner Set - E20	50-2366
-	Glass Burner with Clear Glass	50-2367
-	Glass Burner with Black Glass	50-2369
-	Rock Set (8 Pcs) - E20	50-2381
34	Four Sided Surround - E20	50-2382
-	Log Kit - E20	50-2383
35	Four Sided Trim-able Panel - E20	50-2384

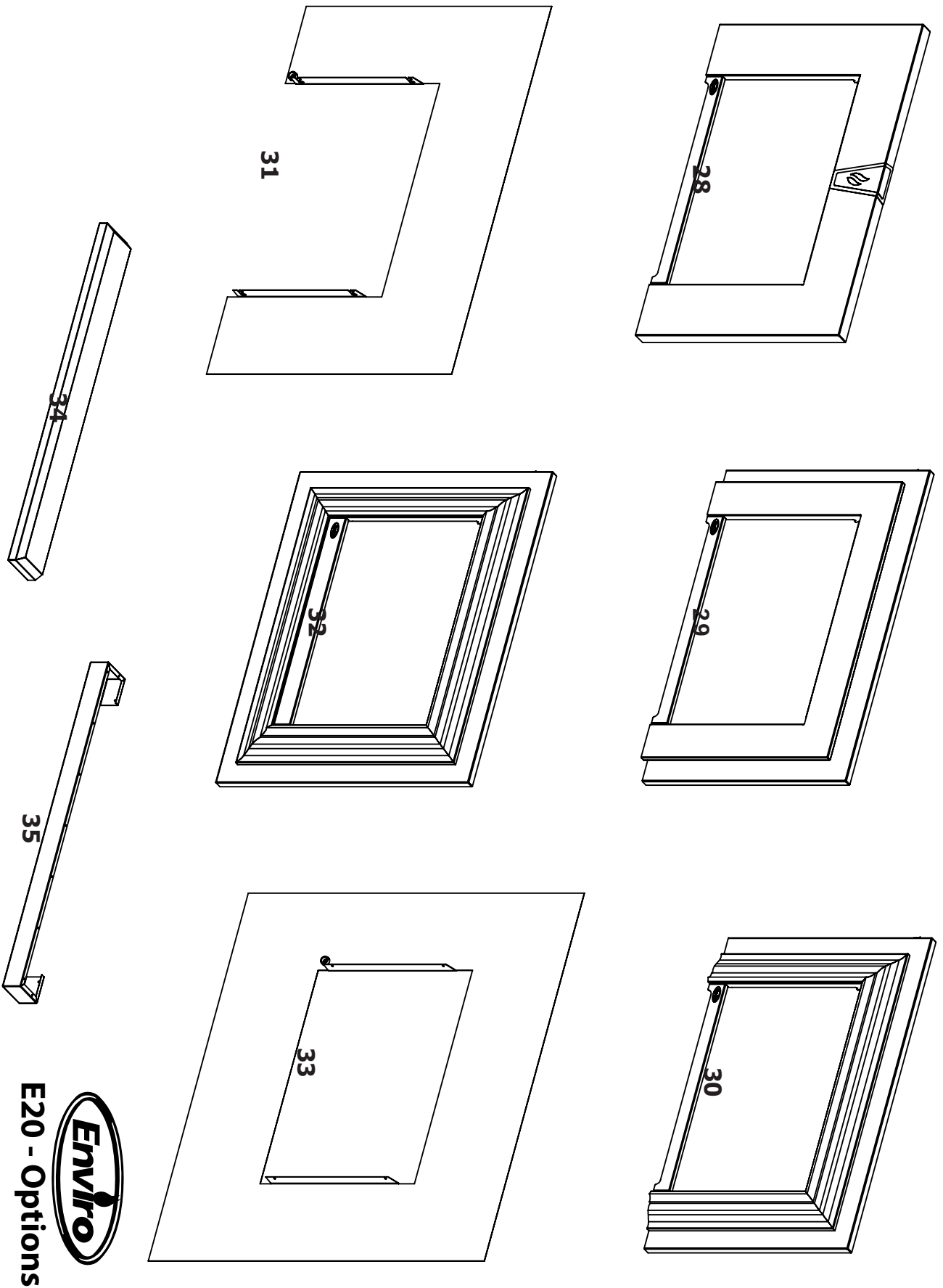
PARTS DIAGRAM - COMPONENTS



E20I - Components



PARTS DIAGRAM - OPTIONS



NOTES



Warranty for Enviro Gas Products

Sherwood Industries Ltd. ("Sherwood") hereby warrants, subject to the terms and conditions herein set forth, this product against defects in material and workmanship during the specified warranty period starting from the date of original purchase at retail. In the event of a defect of material or workmanship during the specified warranty period, Sherwood reserves the right to make repairs or to assess the replacement of a defective product at Sherwood's factory. The shipping costs are to be paid by the consumer. All warranties by Sherwood are set forth herein and no claim shall be made against Sherwood on any oral warranty or representation.

Conditions

- A completed warranty registration must be submitted to Sherwood within 90 days of original purchase via the online warranty registration page or via the mail-in warranty registration card provided. Have the installer fill in the installation data sheet in the back of the manual for warranty and future reference.
- This warranty applies only to the original owner in the original location from date of install.
- The unit must have been properly installed by a qualified technician or installer, and must meet all local and national building code requirements.
- The warranty does not cover removal and re-installation costs.
- Sherwood Industries Ltd. reserves the right to make changes without notice.
- 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.
- A proof of original purchase must be provided by you or the dealer including serial number.
- This warranty does not cover any discoloration of the safety screen mesh.

Exclusions

An expanded list of exclusions is available at www.enviro.com/help/warranty.html

This warranty does not cover:

- Damage as a result of improper usage or abuse.
- Damage caused from over-firing due to incorrect setup or tampering.
- Damage caused by incorrect installation.

To the Dealer

- Provide name, address and telephone number of purchaser and date of purchase.
- Provide date of purchase. Name of installer and dealer. Serial number of the appliance. Nature of complaint, defects or malfunction, description and part # of any parts replaced.
- Pictures or return of damaged or defective product may be required.

To the Distributor

- Sign and verify that work and information are correct.

Sherwood Industries Ltd.

6782 Oldfield Road, Victoria, BC . Canada V8M 2A3
Online warranty registration: www.enviro.com/warranty/

Category	One Year	Two Year	Limited Lifetime (7yr)
Parts ^{1,2} (unit serial number required)		✓	
Firebox Liner Panels ³		✓	
Firebox			✓
Heat Exchanger			✓
Burner			✓
Ceramic Logs ⁴			✓
Ceramic Glass ⁵	✓		
Pedestal / Legs (excluding finish)			✓
Door Assembly			✓
Surround Panels (excluding finish)			✓
Exterior Panels (excluding finish)			Up to 5 years
Electrical Components		✓	
Exterior Surface Finishing	✓		
Labour	✓		

¹ Whereas warranty has expired, replacement parts will be warrantied for 90 days from part purchase date. Labour not included. Unit serial number required.

² 50-173 Westport Fan Kit covered for up to 5 years from purchase date. Labour not included. Unit serial required.

³ Excluding damage to the finish caused by improper setup of the appliance, or color changes.

⁴ Log set and panels excludes wear and tear or breakage caused by cleaning or service.

⁵ Glass is covered for thermal breakage. Photos of box, inside of door, and unit serial # must be supplied for breakage due to shipping.

⁶ Exterior Surface finishing covers plating, enamel or paint and excludes colour changes, chipping, and fingerprints. Travel costs not included.

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) ☐ DIRECT VENT ☐ B-VENT ☐ 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.enviro.com
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C-15109