



York Insert Operation & Maintenance Manual

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"Please read this entire manual before installation and use of this pellet fuel-burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death."

"Contact local building or fire officials about restrictions and installation inspection requirements in your area."

Save these Instructions

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Dear St. Croix Pellet Insert Owner:

Congratulations! Your purchase of a St. Croix pellet insert places you among a select group of individuals who have demonstrated their concern about residential heating efficiency and our environment.

This owner's manual is designed to help you obtain maximum benefit from your St. Croix wood pellet stove.

Please read this manual in its entirety BEFORE operating your pellet stove. During the manufacturing process every effort has been expended to ensure that each St. Croix pellet insert meets the highest quality standards of material and workmanship.

Here are some important aspects of pellet insert installation and operation, which you must observe in order to obtain maximum comfort and safety from your new St. Croix wood pellet stove.

1. Have your new St. Croix pellet insert installed by trained, qualified personnel.
2. Use only clean, dry quality wood pellets that are known to burn satisfactorily in your stove.
3. Faithfully adhere to the maintenance program described in this manual. Thank you for selecting a St. Croix pellet insert as the environmentally preferred answer to your residential heating needs.

**SAVE THIS OPERATIONS AND
MAINTENANCE MANUAL**

York Insert

Bay Front Pellet Insert

Features:

45 Lbs. Hopper



**Tube
Scraper
Rod**

**Large
Viewing
Glass
With
Air
Wash
System**

**Digital
Control Board
With
Diagnostic
Features**

**Exclusive
“SmartStat”
Fully Automatic
Auto Ignite
System**

**Versa Grate
System**

**3 Tray Ash Pan System
with
Quick Release Latch**

Operation and Maintenance York Insert Pellet Stove

CAUTION: Operate this unit only with the fuel hopper lid closed. Failure to do so may result in emission of products of combustion from the hopper under certain conditions. Maintain hopper seal in good condition.

INSTALLATION

Proper installation is essential for safety, effective operation, warranty coverage, and insurance requirements and to meet local building codes. Installation requirements are described in the Installation Manual included with your new stove.

PREVENTING CHIMNEY FIRES

Chimney fires can be prevented by properly operating the stove and by periodic inspection and cleaning of the chimney. When wood is burned it produces tar and other organic vapors, which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue associated with a slow burning fire. As a result, creosote residue accumulates on the flue lining. When ignited this creosote can result in an extremely hot chimney fire.

The chimney and chimney connector should be inspected at least once every two months during the heating season to determine if a creosote build-up has occurred. If a significant layer of creosote has accumulated (3 mm or more) it should be removed to reduce the risk of a chimney fire. Use of an appropriately sized chimney brush or the services of a professional chimney sweep are recommended.

SATISFACTORY PERFORMANCE

The keys to satisfactory performance are: proper operation of the stove, diligent maintenance and burning only dry, clean, quality wood pellets.

PELLETS

Clinkers and ash are a by-product of pellet combustion and are not caused solely by your stove. Stove performance can be quickly and severely reduced if poor quality pellets are used.

Contact your dealer for more information on APFI approved wood pellet fuels.

NOTE: Pellets with excessive sawdust should be screened by sifting with 1/4" mesh screening.

Store Pellets under cover on a wooden pallet or other methods to ensure they do not become rain soaked or absorb moisture from damp or wet floors. Do not store pellets within stove installation clearances or within the space required for ash removal.

The stove is not warranted against damage caused by poor pellets, incorrect operation, poor maintenance or incorrect installation.

ADD CORN TO THE MIX

The Prescott Series is approved to burn a mixture of pellets and corn (maximum 50% corn). The Thermostat Switch should be set to the Manual position. (*See Fig. 2 on page 5*) Operation of the stove doesn't change when burning a mixture of pellets and corn. The burn pot will need to be cleaned on a daily basis, using the "Pot Scraper Tool" shown in figure 5 on page 9. Use the Pot Scraper Tool to remove any clinkers that build up because of the corn when needed. For more information, read the Daily, Periodic and Yearly Maintenance section towards the back of this manual.

OPERATING INSTRUCTIONS

A different type of heater. The pellet stove is neither a cord wood stove nor a furnace. Its operation and maintenance differ from the traditional wood stove. **FOLLOW THESE OPERATING INSTRUCTIONS EXACTLY AS STATED TO ENSURE SAFE AND RELIABLE OPERATION.**

1. Carefully read this "Operation and Maintenance" manual in its entirety BEFORE lighting your stove for the first time.

2. Obtain final inspection and approval of installation from local building officials.

3. Carefully clean all marks off the gold plated parts before the first fire is lighted. Use a soft cloth and a “Windex” type cleaner. **Caution:** Never use an abrasive cleaner on any plated or painted parts of the stove.

4. Have your dealer demonstrate all the operational and maintenance steps necessary for proper use of the stove. Sign and return the warranty card, to the address listed on the back page.

5. Some odors may be given off during the first few hours of burning during initial break-in. These odors are normal and not harmful. However, ventilating the room until the odors disappear is recommended.

6. The stove will become HOT while in operation. Keep children, clothing and furniture away from all stove surfaces. **WARNING: Direct contact with the stove while operating may cause skin burns.**

7. To avoid the possibility of smoke and/or sparks entering the room always keep firebox and de-ashing doors closed whenever the stove is operating.

8. A certain amount of carbon monoxide may be produced within the stove as a by-product of combustion. All exhaust vent connections must be sealed with RTV silicone to assure a gas tight seal. Any leaks into a confined area caused by faulty installation or improper operation of the stove could produce dizziness, nausea and in extreme cases, death.

9. An outside source of combustion air is required on all mobile home installations. If room air is used to supply combustion air, room air starvation, operation of exhaust fans and icing of air vents can adversely affect proper stove operation. If these conditions exist, outside air should be used.

10. Smoke detectors, installed in the same general area as the stove, may be activated if the stove door is left open and smoke is allowed to enter the area.

Control Board Features

READ “FREQUENTLY ASKED QUESTIONS” ON PAGES 15-19 BEFORE OPERATING THE STOVE.

The Control Board controls all functions of the Stove by monitoring sensors that are in the system. These sensors serve 2 purposes.

- a. General Operation of the Stove.
- b. Safety Features, to shut the unit down in the event the sensors detect a problem in the unit.

The Control Board also has Diagnostic Capabilities to help in diagnosing 3 areas in the Stove. These areas are:

1. High Temperature Limit.
2. Proof of Fire Sensor
3. Vacuum in the Firebox

A closer look at the Control Board on page 5, figure 2 will explain how the board works. There are five buttons labeled 1 through 5, a slide switch labeled 6 and a LED Light bar with 5 Heat Settings. **The LED Light bar is also used during the Diagnostic process, see page 6 and 7 for more details.**

The buttons on the board function as follows: *(Refer to Figure 2. The touch pad buttons and Slide Switch are labeled with the white numbers 1 through 6)*

1. The Heat Level button (1) will advance the setting between level 1 and 5. Once you reach level 5, it will drop back to level 1. Each level has a LED light to indicate where the board is set.

2. The On/Off button (2) turns the Stove On and Off. It will also reset the board after the board has sensed a problem and is flashing a Diagnostic code.

3. The auger button (3) will allow the customer to manually auger pellets into the burn pot on start up when needed. This is particularly helpful in priming the Auger Tube when it is empty

4. The Draft Trim button (4) allows for adjusting the Exhaust fan voltage on Heat Level 1 only. Push the button and the all of the LED Lights in the light bar will flash once. This decreases the Exhaust fan voltage approximately 5 volts below the default setting. Push the button a second time and all of the LED Lights in the light bar will flash twice. This decreases the voltage approximately another 5 volts. Pushing the button a 3rd time will reset the voltage to the default setting. **This adjustment is available to fine tune the #1 Heat Level draft setting only.** This would only be used in the case the Stove was hooked up to a tall Vertical Chimney *(see point 9 on page 18 for more information)*

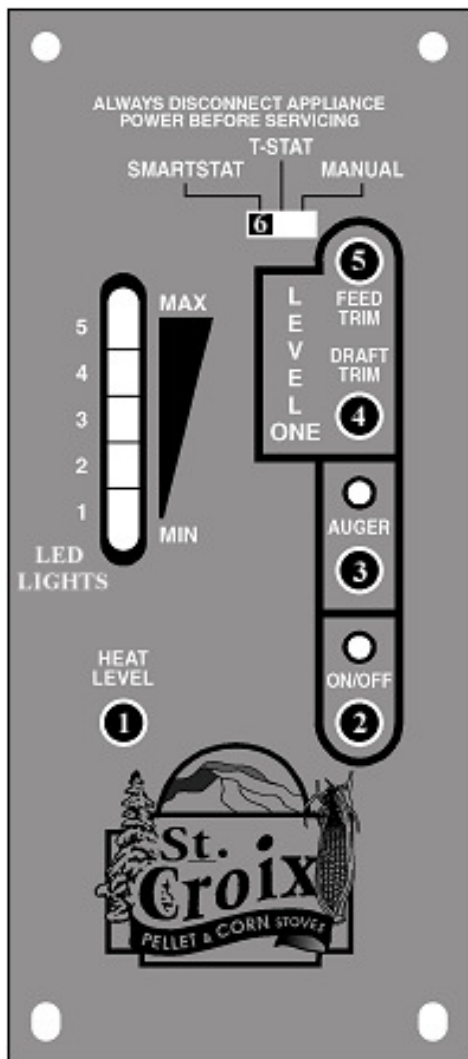


Figure 2

5. The Feed Trim button (5) will allow the Fuel feed rate to be adjusted **on Heat Level 1 only**. Heat Level 1 should be seen as the Pilot setting of the Stove, when operating on a Thermostat. Pushing the Feed Trim button (5) will switch between the different adjustments. Heat Level one can be adjusted in the following ways:

- a. The first LED only indicates the Normal #1 setting. (1.5 second on time). This is the default setting.
- b. The first and fourth LED lights indicate the #1 **Low** setting. (1.25 second on time) This will reduce the heat output on the #1 setting. This setting will also create more buildup on the glass. (See point 9 on page 18)

- c. The first and fifth LED lights indicate the #1 **High** setting. (1.75 second on time) This will produce the most heat available on the #1 setting. This is helpful in keeping the glass a little cleaner when burning on low.

The adjustments described in points 4 and 5 remain in effect as long as the unit is plugged in. If the unit gets unplugged or if there is a power failure the settings are lost and the adjustments would need to be reset.

Thermostat Function – How does it work?

6. Thermostat Slide Switch. Use this switch to change the Operations mode between a Manual Mode, T-stat Mode or a fully Automatic “*SmartStat*” Mode.

Manual Mode – The stove is controlled by the control Board and the operator, no thermostat is involved.

T-Stat Mode – This is where a thermostat controls the stove, but the stove never shuts down. In this mode the stove will advance to the Heat Level that has been selected when the thermostat calls for heat and drops to the #1 Heat Level and pilots when the thermostat doesn’t call for heat.

SmartStat Mode – How does it work?

The SmartStat Function on a St. Croix Pellet stove is the way a St. Croix operates as a Fully Automatic stove. A stove operating as a Fully Automatic stove works great when constant heat isn’t needed. The stove lights when heat is needed and shuts off when it isn’t needed. However this is not the way to operate a stove once the Heating Season arrives. Then a constant source of heat is what you will be looking for. This is where the “*SmartStat*” puts the St. Croix in a different category. The stove operates on a Thermostat and once the heat demand has been met the stove will drop into the #1 Heat Level and pilots there for one hour. If the thermostat doesn’t call for heat during that one-hour period, the stove will shut down and wait to re-light itself when the thermostat calls for heat again. The control board automatically switches back and forth between a “Piloting Thermostat System” and a “Fully Automatic Thermostat System” based on how often the thermostat calls for heat. This eliminates the On – Off cycle of an Automatic stove, once the Heating season arrives.

Pre-Lighting Instructions

When lighting your stove for the first time, or any time you have run out of Pellets, you will need to fill the hopper. Pellets are fed from the hopper to the burn pot by an auger. A high torque motor that is capable of doing **SERIOUS** harm to fingers drives the auger. Keep fingers and other objects away from the auger.

WARNING: The Auger can start at any time while the stove is running

WARNING: The Ash Pan Door must be in the latched position during normal operation.

WARNING: The Firebox Door must be in the latched position during normal operation.

Lighting Your Stove. (Refer to Figure 2)

1. Make sure there are pellets in the hopper and the viewing door and ash pan door are closed.
2. Push the On/Off button on the control board. (*Button #2*)

At this point all that needs to be done is to monitor the burn pot to make sure the stove starts up properly. Once the On/Off button has been pushed the Start Up program takes over. The Start up Program works as follows:

- a. The Combustion fan and Room fan come on at high speed and the control board checks to make sure the Vacuum switch locks in. (See Diagnostic features in column to the right.)
- b. When the board senses the Vacuum switch the Combustion fan drops to the #1 setting and the Room fan shuts off.
- c. The Igniter and the Auger come on (the Auger only runs for 2 minutes). The stove will typically light in the first 3 - 4 minutes. After 5 minutes the board checks for "Proof of Fire" and starts feeding pellets on the #1 setting (See Diagnostic Features in the column to the right). Once the board senses

P.O.F. the Igniter shuts off and the stove has started successfully.

- d. If the board fails to sense P.O.F. it will repeat the previous step and continue feeding pellets on the #1 setting for 5 more minutes.
- e. The board will check for P.O.F. one more time. If the board still fails to sense the Proof of Fire switch, the stove will go into "Safety shutdown" (See Diagnostic Features in the column below).

If this happens, repeat steps 1 through 4 from the section on Lighting Your Stove.

CAUTION: NEVER ADD FIRE STARTER TO A HOT STOVE.

Shutting The Stove Off (*Refer to Figure 2*)

1. Press the On/Off switch (2) once; the lights will go off and the fire will go out in a few minutes. The board essentially goes into "Safety shutdown".
2. As long as the Exhaust Temperature within the stove remains above 110°F, the Room Air Fan, the Combustion Exhaust Fan and the Versa Grate motor will continue to run. Once the P.O.F. switch drops out the Combustion Fan runs for another 10 minutes and finally the stove shuts down completely.
3. NEVER unplug the stove to shut it off. Doing so may cause a significant amount of smoke to enter the room.

Diagnostic Features of the Control Board - The #2 LED and the #3 LED lights on the LED Light bar as show in Figure 2 will flash to give a diagnostic code to help in diagnosing problems that may occur.

These conditions fall into 2 categories:

- a. Heat related issues.
- b. Vacuum related issues.

The Diagnostic Lights flash as follows:

The **Proof of Fire** switch. This switch will sense the temperature of the Exhaust rising during start up. If the Exhaust temperature does not reach 110 degrees F, or if during use the temperature drops below 110 degrees F, the Stove will go into "**Internal Alarm**" and the Auger will quit feeding fuel. Once the stove completes the safety shutdown, the #3 LED will start blinking. (*See Figure 2 on Page 5 and point 3 on page 15*)

The **High Limit** switch. This sensor will sense if the unit reaches temperatures that are too high for normal operation. If this happens the Auger will quit feeding and the #2 and #3 LED lights will flash simultaneously. (See Figure 2 on Page 5 and point 4 on page 16)

The **Vacuum** Switch - For the stove to operate, the Firebox needs to be sealed. During the first 30 seconds after the stove has been turned on the Control Board will check if the switch senses negative pressure (Vacuum) in the Firebox of the stove. If there is no negative pressure, the stove will shut down and the #2 LED will start blinking. (See Figure 2 on Page 5 and point 2 on page 15).

“Power Reset”. If the board becomes unresponsive you must unplug the stove, wait 10 seconds and plug the stove back in to reset the board.

“Internal Alarm”. When the control board becomes unresponsive, the control board is in Internal Alarm. The control board has sensed one of the Safety sensors. This may cause the stove to go out. **In some cases, after waiting approximately 45 seconds the stove will start responding to the control board again.** Many times, the cause of this is a change in the vacuum inside the stove. This may be caused by excessive wind, opening the Firebox door or opening the Ash Pan door. The control board will monitor the vacuum switch and resume normal operation if the vacuum returns to normal.

Safety Features

1. **“High Limit” switch**”, an overheat safety switch will shut off the fuel feed if the Stove reaches temperatures above normal operating temperature. This is a “Normally Closed” switch and is part of the Fan limit control. If the High limit switch trips several times, the problem in the Stove **must** be diagnosed before the Stove is put back in service, (Defective Room Fan, dirty Room Fan, dirty Return Air Filter, defective Fan Limit Control or possibly a bad Control Board)

2. **Proof of Fire switch** also called the **P.O.F.** This senses the temperature rise in the exhaust system. The switch is “Normally Open” and closes the circuit at 110 degrees. The Stove will shut down if temperatures above 110 degrees F

are not sensed during start up or if the temperature drops below 110 degrees during normal operation.

3. **Vacuum switch** also called the **Negative pressure switch**. When the stove is turned on the Exhaust fan will create a negative pressure in the firebox. The control board continually checks to see if Negative Pressure (vacuum) is present during operation of the Stove. If the exhaust venting system becomes clogged or obstructed, the firebox door or ash pan door are left open or the exhaust fan quits working the control board will go into “Safety shutdown”. There is a 60 second window to allow for cleaning the glass and removing the clinker before then Stove shuts down. This is sufficient for the Daily Maintenance

4. **Hopper Lid Switch**. The hopper lid switch will shut off the auger motor when the hopper lid is open. Be sure the lid closes completely when refilling the hopper or the unit will shut down.

The St. Croix Pellet Stove has been Safety Tested by an accredited, independent laboratory.

WARNING: These safety features are designed to protect life and property. Bypassing these features voids all warranties and the safety listing of the stove.

Damper Adjustment

When burning pellets make sure to check for the formation of creosote in the unit and venting system. Constantly running the stove on a low setting with too much combustion air may cause creosote to form. Burn pot temperatures can be “too cool” when burning on low with too much draft.

Adjusting the Damper may take a little time and patience, but only needs to be done once. After the damper has been adjusted to the venting system in your home, the control board will do the rest.

The purpose of this damper is to adjust combustion airflow to match the characteristic of each specific air inlet and chimney configuration. The damper has been preset at the factory and is about 80% closed. This setting will work with most installations. Tall

vertical runs might need the damper to be closed a little. To adjust the damper, use the Damper knob on the right side of the insert, just above the control board (See Figure 3 and 4). To make an adjustment, turn the knob clockwise to close the damper and counter clockwise to open the damper. The knob only turns 90 degrees. **Do not move the indicator more than 1/16” at a time.** After making an adjustment wait at least 15 minutes to see how the burn pot reacts to the change. Additional Draft Adjustments can be made for Heat Level 1 by using the “Draft Trim” button on the control board (See point 4 on page 4). **Adjusting the damper during the break in period is very important (See “Preventing Chimney Fires” on page 3).** Break-in requires the burning of 15 bags of pellets or continuous burn for two weeks. If during the initial break-in period you experience difficulty keeping the stove burning or there appears to be an excessive amount of burning pellets being evacuated from the burn grate, it may be necessary to close the damper some more. Once the damper is adjusted, the stove will run fine without having to make a change to the damper setting, unless the stove is run on 5 for extended periods of time (See **“Flame Pattern Characteristics” in the column to the right**). It is normal for ash and some sparks to be continually evacuated from the burn grate. This is how the grate continuously cleans itself.

The equivalent of a teacup of unburned pellets a day in the ash pan is considered normal.

Flame Pattern Characteristics

Correct Flame Pattern - Bright yellowish-white flame with a brisk movement, having sharp pointed end tips extending up towards the Heat Exchange Tubes while forming a fan-like shape. Small amounts of ash and some live sparks being blown out from the Burn Pot area is considered normal operation.

Incorrect Flame Pattern - Dark orangish-brown flame with a lazy movement, having black smoky end tips curling up and over the Heat Exchange Tubes while forming a fireball-like shape. Some Ash or Live Sparks not being blown out from the Burn Pot area is considered abnormal operation. Extremely black soot forming on the ceramic glass surface is a sign of very poor combustion (not enough combustion air) and should not be overlooked. At the other end of the spectrum; an extremely brisk flame which blows large pieces of live coal out from the Burn Pot area and causes stubborn shiny black build-up on the glass (too much combustion air) is also considered undesirable.

If you experience problems adjusting the stove during the Break-In Period, contact your dealer.

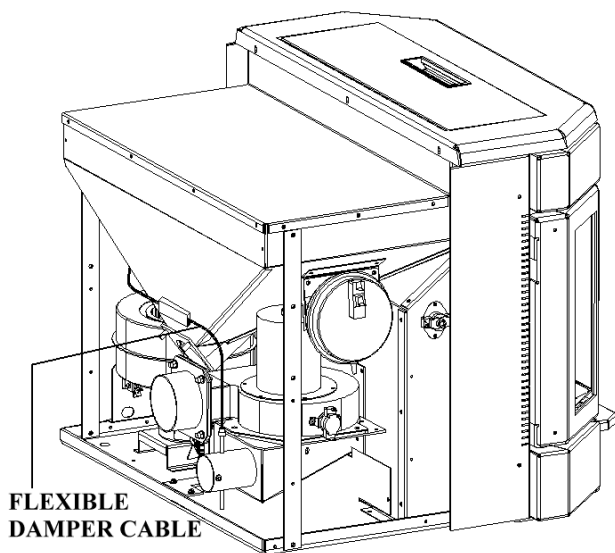


Figure 3

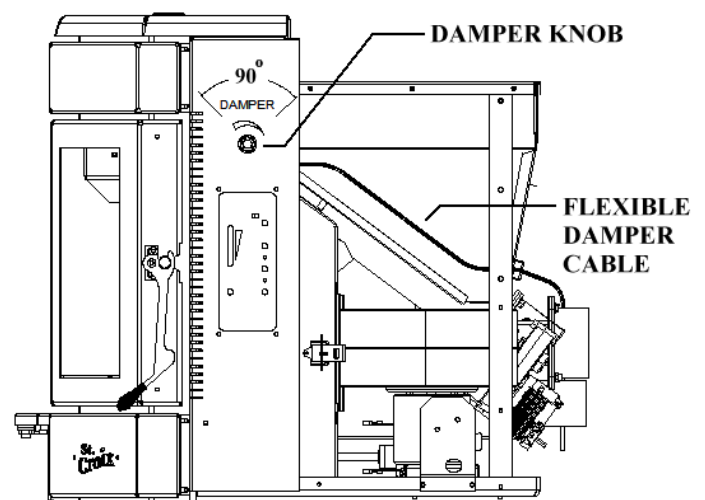


Figure 4

MAINTAINING THE STOVE

The stove requires a minimum amount of daily maintenance. Required maintenance depends largely upon the quality of pellet fuel burned and the rate of burn. The amount of daily maintenance will increase if fuel quality decreases and/or the burning rate of pellets increases.

NOTE: FAILURE TO KEEP YOUR STOVE CLEAN, AS DESCRIBED IN THIS MANUAL, COULD RESULT IN POOR OPERATION, INEFFICIENT FUEL USAGE AND A POSSIBLE SAFETY HAZARD! IT IS YOUR RESPONSIBILITY TO DETERMINE NEEDED MAINTENANCE FREQUENCY.

All models are equipped with the Versa Grate System (see Figure 5 below). The benefit of this feature is that the stove can operate for longer periods of time, with most fuels, without the grate requiring cleaning. If the flame becomes dark orange, is accompanied by black smoke or burns with a lazy motion - it's time to clean the grate.

Remember, cleaning frequency may change dramatically from one fuel to another. Pellets with high ash content or that have increased amounts of impurities or high moisture content will require more frequent cleaning.

When you first operate your stove or whenever you change fuels check to determine needed cleaning frequency.

The Versa Grate System – First, let's become familiar with the burn system in a St. Croix Pellet stove. The system in the York Insert is a little different than in the Freestanding models (See Fig 5 below). There is a 2-piece burnpot. The top Part is called the **"Grate Weldment"**. This sits on top of the **"Shaker Plate"**. This in turn sits on top of the **"Shaft/Cage Weldment"** and is held in place with the **"Spacer"** & **"Self Locking Twist pin"**. The Shaft/Cage weldment is moved towards the front of the stove and then towards the back of the stove by the **"Cam"** that is connected to the **"Versa Grate Motor"**. This motion is constant while the stove is in operation. The only parts that may need to be removed for cleaning purposes during the Daily or Periodic Maintenance are the **"Grate weldment"** and the **"Shaker Plate"**. The holes in the burnpot will get plugged with use and should be checked regularly.

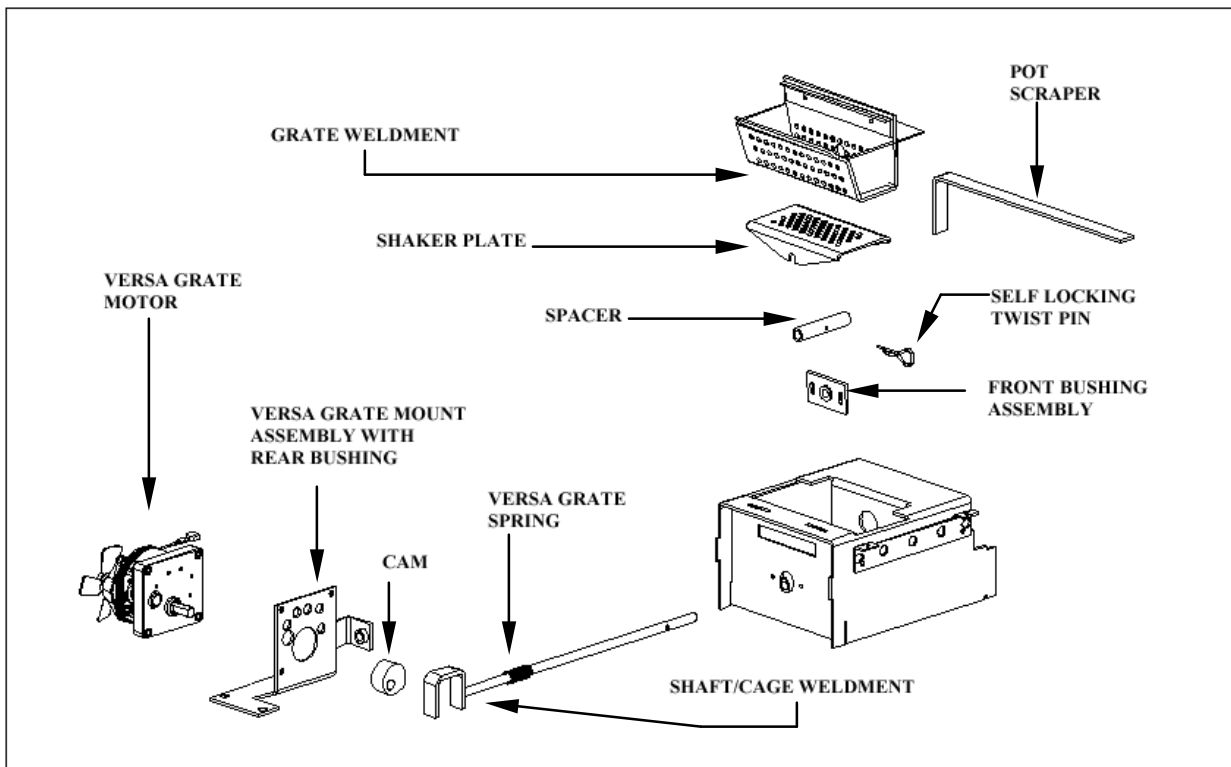


Figure 5

Daily Maintenance

1. Check Grate Weldment and Shaker Plate (See figure 5) to determine if holes are plugged. Clean as needed. With proper precautions the grate may be partially cleaned while the stove is hot. Follow these steps:

CAUTION: THE DOOR AND FRONT PART OF THE STOVE WILL BE HOT. DO NOT TOUCH ANY PART OF THE STOVE THAT IS HOT!

- a. Wear a leather glove that covers the lower arm.
- b. Turn the Stove to Heat Level 1 and allow the flame to burn down to a low burn.
- c. Open the firebox door slowly to prevent drawing ash or odors into the room.
- d. Use the “scraper” provided to move the burning pellets to one side of the grate, leaving the ash in the bottom of the grate. (See Fig 5 & 6)
- e. Rake the ash & clinkers out over the grate into the ash pan.
- f. Rake the burning pellets across the bottom of the grate.
- g. Close the door.
- h. Re-select the desired heat setting.

CAUTION: NEVER ADD FIRE STARTER TO A HOT STOVE.

2. There are 3 separate ash pans (See figure 7) in the York insert. Be sure to empty the center ash pan before it is allowed to plug the burn grate. **If stove is burning with a lazy flame be sure to check the center ash pan. Check Ash Pans frequently to determine how often they need to be emptied.** NOTE: Do not use a vacuum cleaner for this purpose. Hot coals may cause your vacuum filter to catch fire. Place ashes in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container for at least two days until all cinders have thoroughly cooled. To access the ash pans rotate the “Quick Release” ash pan handle 90 degrees away from the stove (See Figure 6) and tip the ash pan door out 45 degrees. This allows the ash pan door to lift away from the stove and be set aside. Empty Ash pans one at a time into a small container. When replacing the ash pan door remember to tip the door at a 45-degree angle as shown in figure 7 before placing the Ash Door Hinge Points, *small half moon notch in lower corners of the ash pan door*, on the hinge pins (see figure 7). Press the door into the pins and rotate up at the same time. Rotate the handle 90 degrees to latch ash door.

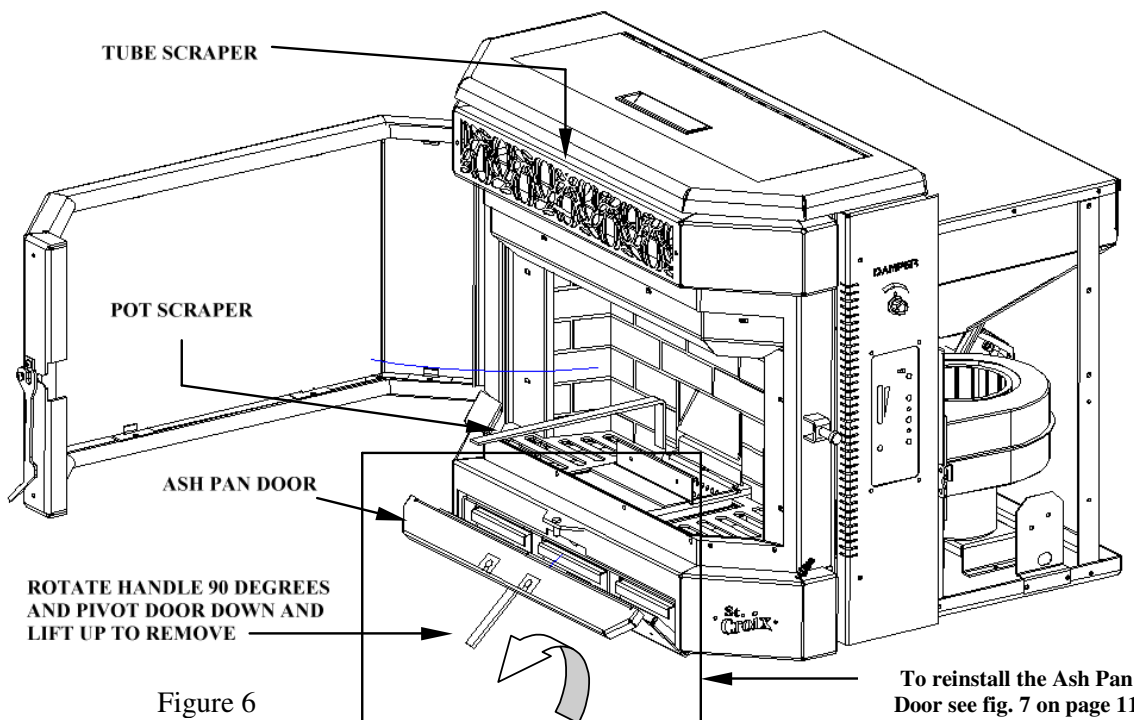
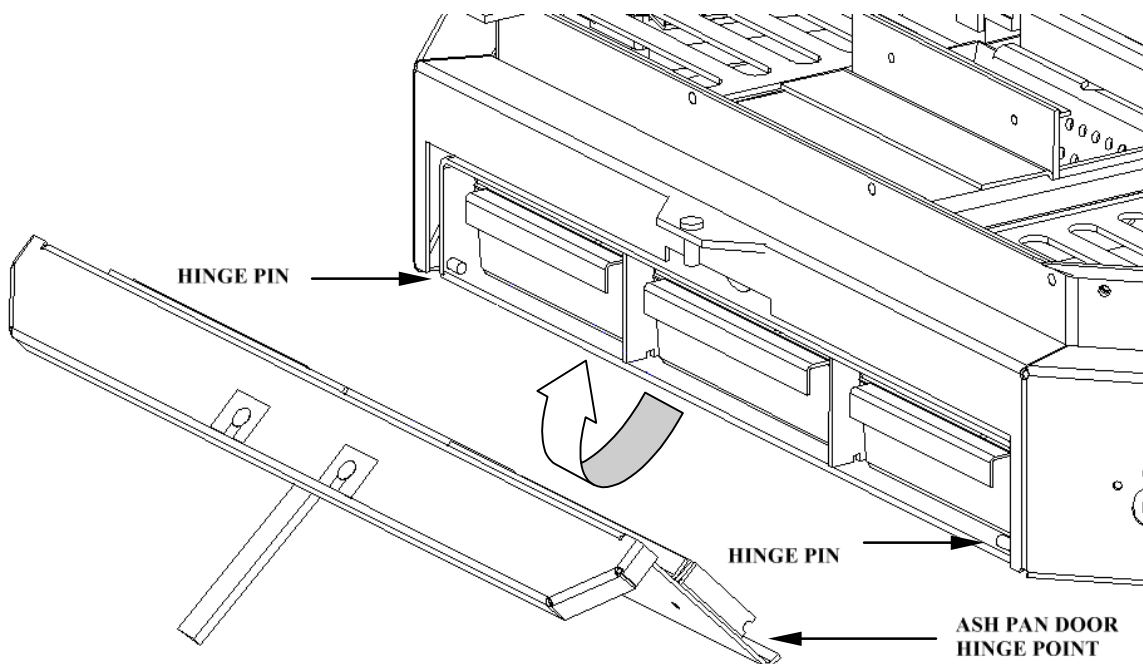


Figure 6



Press the door into the pins and rotate up at the same time. Rotate the handle 90 degrees to latch ash door

Figure 7

3. Once or twice daily pull the Heat Exchange Tube Scraper (See figure 6) out and back to clean heat exchange tubes. Failure to operate the tube scraper daily may result in poor combustion and loss of heat output. This should be done when the stove is cool or operating on the low temperature setting.

4. Clean the Glass. The rate of burn and the quality of fuel will determine how often the window needs cleaning. Prolonged burning at a slow burn rate will result in the need for more frequent window cleaning. Burning poor fuel also increases the need to clean the window. Cooling the stove and wiping the window daily with a cloth or paper towel will normally keep the window from accumulating difficult to clean residue. Use of a glass cleaner ONLY permitted when the stove is cold. *Tip: Dip the damp towel in the ashes to remove stubborn buildup on the glass.*

CAUTION: Do not slam the door. Do not operate the stove with a broken or cracked glass. Replace only with heat resistant ceramic glass supplied by the manufacturer.

5. Burn the stove at the HI fuel setting for at least 20 to 30 minutes each day. This helps keep the glass, brick panels and firebox area clean. A daily high burn also aids in maintaining the overall efficiency and performance of the stove.

Periodic Maintenance

CAUTION: Periodic maintenance should only be done while the stove is shut off and cold.

1. Empty the ash pans (see figure 6). The frequency of cleaning the ash pans will depend on the quality and amount of pellets being used. Carefully check to make sure the bottom hinge pins are engaged after closing the ash pan door.

2. Clean the Ash Traps. The York Insert has 2 exhaust cleanout covers (see figure 8) located below the rear brick panel. **IT IS CRITICAL THAT YOU KEEP ASH CLEAN OUTS CLEAN FOR SATISFACTORY PERFORMANCE.** Remove covers and clean regularly. To access the Ash traps for the first time remove the shipping screws that attach the Decorative Grates on both sides and discard them. Remove both side grates and pull

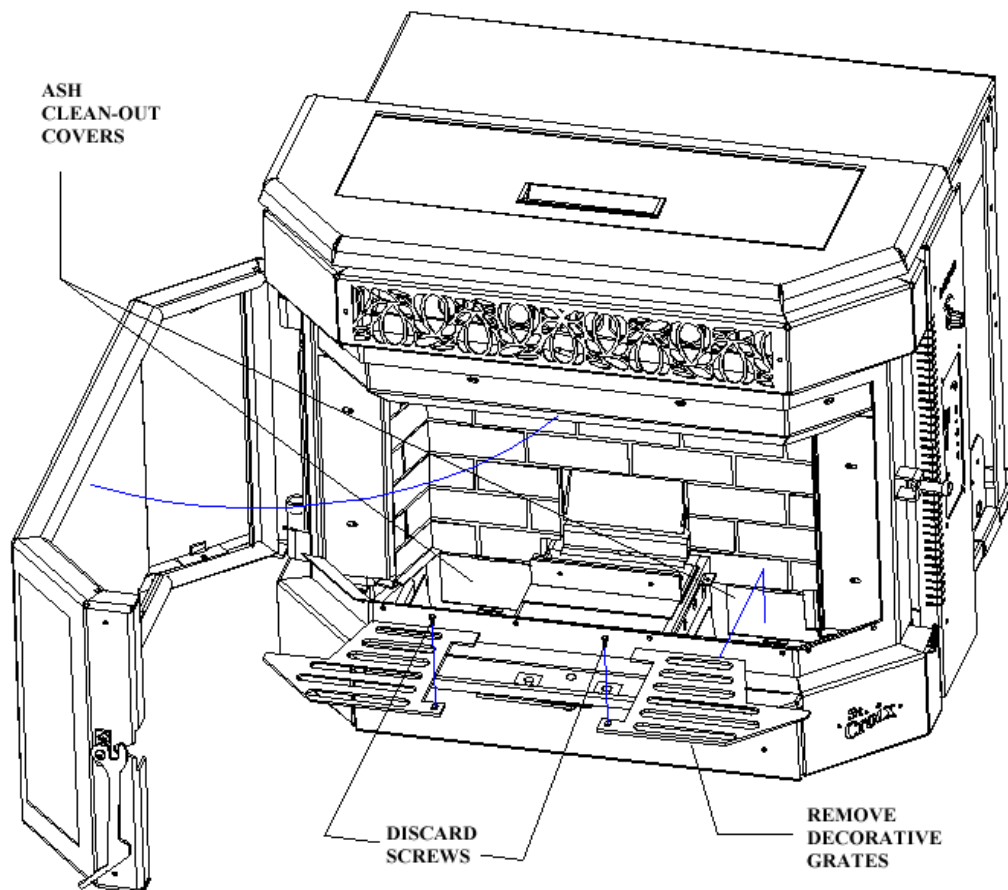


Figure 8

the bottom of the ash trap covers towards the front of the stove. This will allow the covers to slide out of the slot that holds them in place. Vacuum area behind the covers regularly and do not allow area to become plugged. **If stove is burning with a lazy flame be sure to check the ash traps.**

Frequency of cleaning Ash Traps depends on the amount of fuel being burnt and the quality of the pellets. Fuel with low ash content is recommended. **Failure to clean the ash traps can cause the stove to become plugged with fly ash and could result in a Safety Hazard.**

3. Clean holes in the Grate Weldment and Shaker Plate at least weekly. Remove the burn grate and use a small metal object to clean out plugged holes (See figure 5).

5. Remove the baffle and clean the ashes that accumulate on a regular basis. Once a month or sooner, depending on the quality of fuel being used.

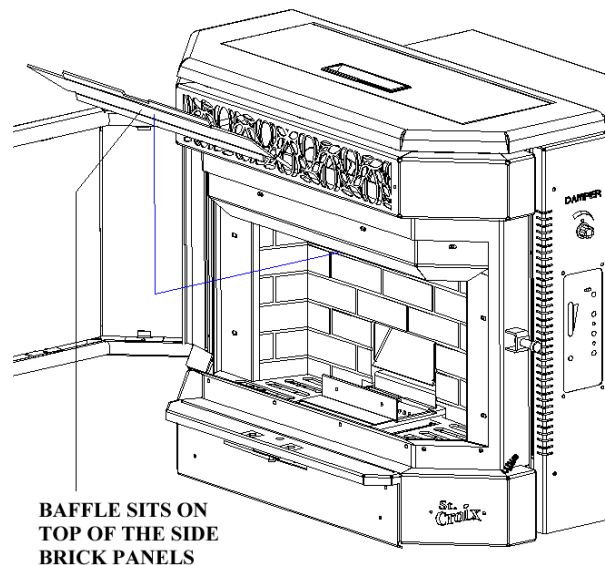


Figure 9

To remove the baffle (See Figure 9), lift the baffle and move it towards the front of the stove. The baffle rests on the side brick in the stove and is not attached with any fasteners. Clean the baffle on a regular basis. Frequency of cleaning depends on amount of fuel being burnt and the quality of the pellets. Fuel with low ash content is recommended.

Failure to clean the baffle can cause the stove to become plugged with fly ash and could result in a Safety Hazard.

6. Periodic cleaning of the exhaust system is required. Under certain conditions creosote buildup may occur rapidly. Low quality pellets and poor installations require more frequent chimney cleanings. See Page 3 “Preventing Chimney Fires”. The products of combustion will also contain small particles of fly ash. The fly ash will collect in the exhaust vent and restrict the flow of the flue gases. Determine the frequency of cleaning by checking the amount of ash that accumulates in the elbows or tees of the exhaust system. Ask the dealer for suggested frequency of cleaning, equipment needed and procedures for cleaning.

Check the exhaust system at least once every two months during the first heating season or whenever switching to a new fuel, to determine how often this is needed.

Yearly Maintenance

Many dealers offer a Service Contract that will cover needed Periodic and Yearly maintenance. Contact your St. Croix dealer for assistance in maintaining your stove in top condition.

Yearly maintenance is designed to assure safe operation, prolong the life of the stove and help preserve its aesthetic appeal.

1. **Spring Shutdown.** After the last burn in the spring, cool the stove. Remove all pellets from the hopper and the auger. Thoroughly clean the burn grate, burn grate box, ash pan

and ash traps behind the ash pan. (To locate the ash traps see Figure 8 on page 12)

2. The exhaust system should be thoroughly cleaned at least annually. Call your dealer for this service.

3. Oil the Damper control shaft and the holes in the 2” tube, to make sure the mechanism moves freely (see figure 10).

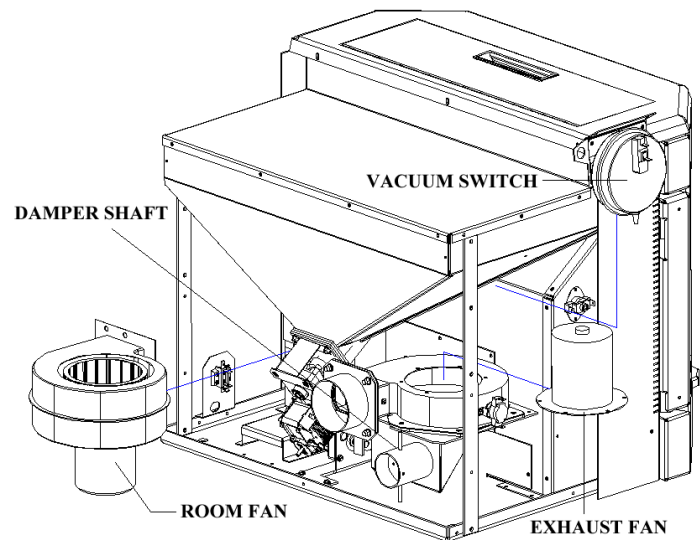


Figure 10

4. The motor/fan area behind the Firebox and under the Hopper should be vacuumed annually (See figure 10). **NOTE: UNPLUG THE INSERT.** Slide the Insert out of the Fireplace and carefully clean or vacuum any sawdust, cobwebs and household dust. Carefully vacuum around the fan motors. Call your dealer for this service.

5. The Exhaust fan should be removed and cleaned annually. Figure 10 shows the Vacuum Switch removed for easier access to the Exhaust fan. Remove the Motor and Impellor from the housing as shown (may require a new gasket) to clean that area of the exhaust system. Clean the Exhaust fan motor with compressed air. Be sure to remove any heavy build-up on the impellor at this time. Call dealer for this service. Annual oiling of the motors is not needed.

6. Remove the Room Fan on a Yearly basis (may require a new gasket) and clean the Squirrel Cage and motor with compressed air. The room fan has 2 oil ports and should be oiled yearly.

7. With the Room Fan removed you have easy access to the **Versa Grate system**. This should also be lubricated on a yearly basis with some High Temp Anti-Seize (can be purchased at a local car parts store). There are several areas to lubricate (see figure 11 below). They are: the Cam, Rear Bushing & Rod of the Shaft/Cage Weldment and the Front Bushing (for location of the front bushing see figure 5 on page 9, it is located in the front of the stove, below the Grate Weldment and Shaker Plate in the Firebox).

These are all moving parts and over time may start making a high-pitched “Squealing” sound.

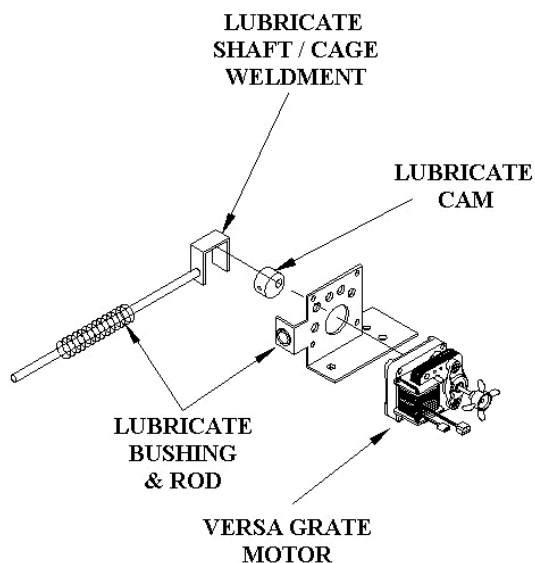


Figure 11

8. Periodically inspect the condition of the rope gasket around the door, window and ash door. Replace as needed.

SAFE OPERATION.

1. **Disposal of Ashes.** Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of burial in soil or otherwise locally dispersed, they should be retained in the container until all cinders have thoroughly cooled.

2. **Never use Gasoline,** gasoline type lantern fluid. Kerosene, charcoal lighter fluid or similar liquids to start or “freshen up” a fire in this heater. Keep all such liquids well away from the heater while it is in use.

3. **Creosote, Soot and Fly Ash:** Formation and Need for Removal. The products of combustion will contain small particles of Fly Ash. The fly ash will collect in the venting system and restrict the flow of flue gases. Incomplete combustion, such as occurs during start-up and shut-down, or incorrect operation of the room heater will lead to some soot or creosote formation which will collect in the venting system. The exhaust system should be inspected regularly during the heating season to determine if creosote buildup has occurred. Check more frequently at first to determine a schedule for cleaning the venting system based on individual use of this Pellet-burning heater. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

4. **Do not over fire this unit.** Follow all instructions regarding the proper use of this heater

Fall Startup. Prior to lighting the first fire check the outside area around the exhaust and air intake systems for obstructions. Try all controls to see that they are working prior to lighting a

TROUBLESHOOTING & FREQUENTLY ASKED QUESTIONS

The stove is very trouble free in operation when properly maintained and quality pellets are used. When the stove fails to operate properly, troubleshooting by the operator of the stove is limited. Please read the following guide for answers to frequently asked questions

1. When first starting the stove remember the auger tube is empty, which will delay feeding fuel to the burn pot. This will in some cases prevent the stove from starting.

Solution: Prime the burn pot if the auger tube is empty.

2. **My stove isn't burning and the number 2 Feed Light is blinking.** This diagnostic light indicates the vacuum switch no longer senses negative pressure in the firebox area of the stove. What caused the stove to go out?

- a. The door of the unit was left open longer than 60 seconds. (**See solution**)
- b. The ash pan door was left open for longer than 60 seconds. (**See solution**)
- c. The combustion fan is not running. (Defective fan or control board)
- d. The vacuum switch is defective.
- e. The vacuum hose is disconnected
- a. The vent system is plugged with fly ash.

Solution: If the fire is out, re-light the stove. If the fire is still burning make sure all doors are securely latched and hold down the On/Off button (approximately 5 seconds) until stove starts up again. This will restart the stove in the start-up program. Occasionally use the auger button to manually feed fuel until the auto-feed takes over (**Auto feed will start 5 minutes after the stove has been restarted**).

3. **My stove isn't burning and the number 3 Feed Light is blinking.** This diagnostic light indicates that the Proof of Fire Switch no longer senses a fire in the stove. First check to see if there are pellets in the hopper. If there are pellets in the hopper, why did the stove go out?

- a. Unburned fuel in the Burn Pot means the fire went out before the Auger quit feeding.

Solution: There is too much combustion air, adjust the air damper or the Draft Trim on Level 1. Pellets would still feed until the P.O.F. switch eventually shuts the stove down (See *Damper Adjustment* in the Operations Manual and point 8 on page 18).

- b. If the Burn Pot is empty means the Auger quit feeding fuel while there was still a fire in the burnpot. Check to see if there is fuel in the hopper. If the hopper is empty, fill the hopper and re-light the stove.
- c. If there is fuel in the hopper, check to see if there is an obstruction in the auger system or if the auger set screw is loose.

Solution: Remove obstruction and re-light the stove or tighten the setscrew on the auger shaft.

4. **My stove isn't burning and the #2 and #3 Feed Lights are blinking simultaneously.** These 2 LED lights diagnose the High Limit Switch and will indicate the stove reached an Over Temp situation.
- a. Check to see if the High Limit switch needs to be reset. If the High limit switch needs to be reset, do not use the stove until you find out why the High Limit tripped.
 - b. The room air fan could be defective or the fan may need cleaning.
 - c. The high limit switch also may be defective. It is best to call your dealer for support when trying to troubleshoot the High Limit Switch. Do not use your stove if the High Limit switch frequently trips.

5. **I lit the stove and the # 2 Feed Light immediately started blinking and smoke spills out of the stove.** How do I get the stove to quit smoking?

Cause: The stove did not establish a vacuum and shut down. With the fuel in the pot burning, the smoke finds the path of least resistance and leaks out into the house. (See Installations Manual. Minimum vertical height needed to establish some natural draft and prevent smoke spillage)

Solution: Pull the Slide-Out Bottom out and drop the fuel into the ash pan. This will minimize the amount of smoke that can spill into the room.

6. **I turned the stove on with the On/Off switch and nothing happens.** First check to see if the stove is plugged in and the receptacle has power to it.

Solution: Check the fuse on the back of the control board. Replace with a 250 Volt, 5 Amp fuse. Part Number 80P20057-R

7. **Why is my glass dirty?** Normal operation of your St. Croix stove will produce a white/tan build-up on the glass that wipes off with a dry paper towel. However, extended burning on the low setting only, will produce a darker tan color. These types of build-up on the glass are normal. A heavy black build-up on the glass could indicate a problem.

Solution: Adjust the combustion air setting to the proper setting. If this doesn't seem to help, make sure the clean out cover plates are installed in the stove. It also could be an indication that the stove is getting plugged and needs a good cleaning. Refer to the section in the manual that covers the Daily, Periodic and Yearly Maintenance of the stove.

8. **How do I adjust my low burn (#1 setting)?** Not all pellets burn at the same rate. The quality of the pellets and the BTU content greatly influences the burn. Following is a description of the function of the auger trim button. The type of fuel used will determine the solution needed. Higher BTU fuel may require a reduction of the federate. Lower BTU fuel may require an increase in the federate.

Solution: The auger trim button on the control board allows the feed rate on #1 to be increased or decreased depending on the type of fuel used.

- a. Pressing the auger trim button once will turn the #1 and #5 light on at the same time. This is an increase of .25 seconds to the On-Time of the #1 setting.

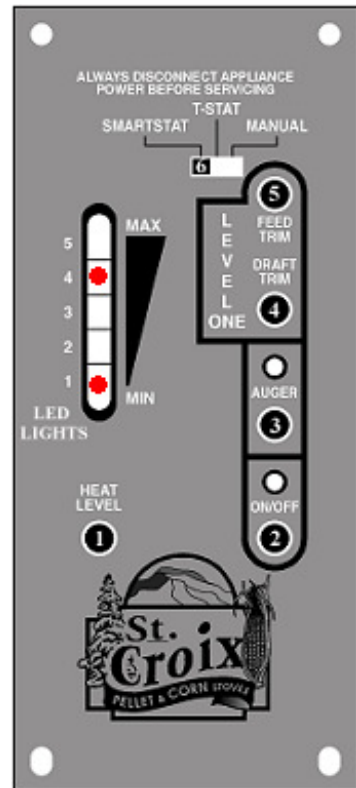
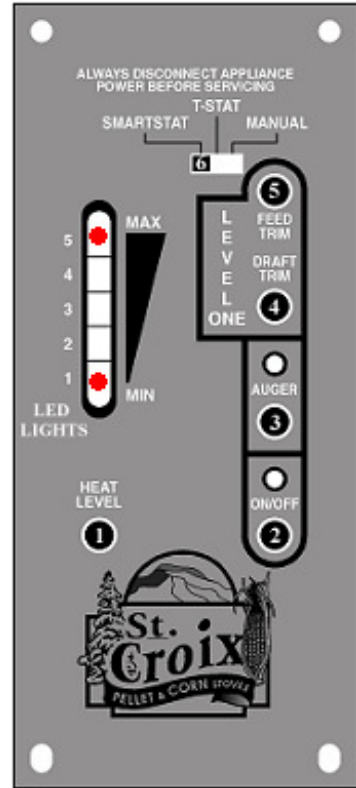
This is the **#1-High setting, 1.75 seconds**

Using the auger trim button is also helpful when trying to keep the glass cleaner when burning on the #1 setting. The more fuel on low will usually mean less build up on the glass.

- b. Pressing the auger trim button again will turn on the #1 and #4 light at the same time. This will decrease the feed rate by .25 seconds.

This is the **#1-Low setting, 1.25 seconds**.

The #1 Low setting will give less heat, but will also cause more build-up to form on the glass.



9. **Why is my glass dirty and how to use the Fan button to help correct it?** Normal operation of your St. Croix stove will produce a build-up on the glass that should be wiped off on a daily basis. However certain types of pellets or extended burning on the low setting will cause the glass to smoke up faster.

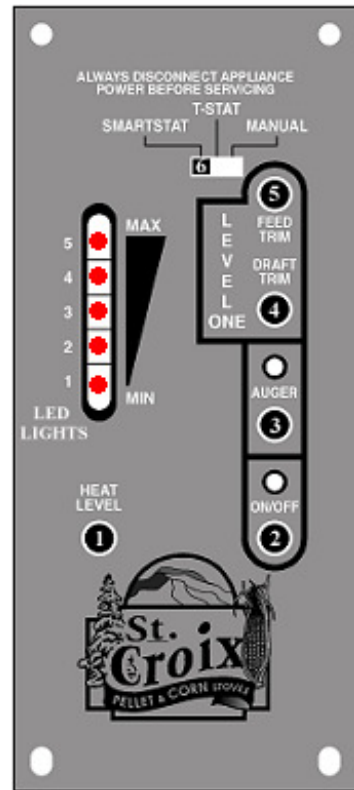
A heavy black build-up on the glass could indicate a problem. You will find two types of heavy build-up that should be looked into further.

- a. A heavy black sooty build-up that wipes off easily with a dry paper towel.

Solution: This type of build up usually means not enough combustion air. First look at the condition of the burnpot to determine that it doesn't need cleaning. If the pot is plugged the burning pellets will be lacking in combustion air and produce black soot. Clean the pot and only adjust the damper after observing the burn. If you see black tips of smoke on the flame open the damper in small increments (Read "Damper Adjustment" on page 8). After adjusting the damper wait 15 minutes for the pot to balance out before making another adjustment.

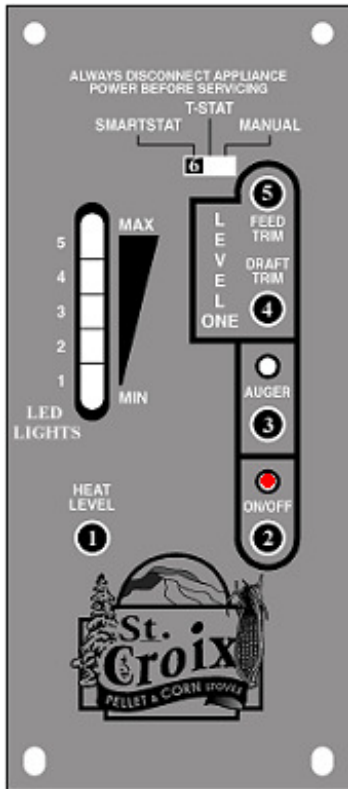
- b. A heavy shiny "glazed" build up on the glass usually means too much air when the stove is burning on the lower levels (levels 1 & 2). When burning the stove like this the pellets "flame-out" every so often, when the auger feeds more pellets they tend to smolder too much causing this stubborn build-up on the glass.

Solution: First trim the combustion fan voltage for level 1 by pressing the fan button once (see button in figure to the right indicated with the arrow). You will see all five lights on the light bar flash once. This will reduce the combustion fan voltage by approximately 5 volts. Stoves hooked to tall vertical chimneys may need another adjustment by pressing the fan button again. All five lights on the light bar will flash twice. This will reduce the voltage again. Pressing the fan button again or if the stove is unplugged will reset the voltage to the default setting. This will help compensate for the natural draft in the chimney. Secondly read the section in the Operations Manual on adjusting the damper. close the damper until the flame gets lazy with black tips on the flame. Now open the damper in small increments of 1/16th of an inch or less. Wait 15 minutes after each adjustment to observe the burn. Once the flame becomes brisk without black tips you have the correct amount of air. Do not open the damper too far (Read "Preventing Chimney Fires on page 3 of this manual)



Remember: Any of the above mentioned adjustments to the #1 setting using the Draft Trim or the Feed Trim on the control board will be lost if the unit gets unplugged or if there is a Power Failure.

10. **The ON/OFF light blinks under certain conditions. Does this mean anything?**



- a. The ON/OFF light blinking will mean one of two things. When the stove is first started and the stove is in the “Start-up” program, the light blinks until the “Proof of Fire” switch locks in. This indicates the “Normal Operation” and the light stays on constantly.
- b. If the stove is running on a Thermostat, it will start up as described in point (a), but during “Normal Operation” when the Thermostat is not calling for heat the stove drops to the #1 setting and “Pilots” until the thermostat calls for heat again. The LED light indicating the Heat Level will not drop to the #1 setting during “Pilot Mode”. During this time the ON/OFF light will be blinking and the auger light blinks when pellets are feeding into the burnpot, indicating that the stove is in “Pilot Mode”. If the stove is running in “SmartStat” Mode, the stove will shut down completely 1 hour after the Thermostat called for heat the last time. Once the stove has completely shut down, all lights on the board are off with the exception of the On/Off light. It will be blinking.

11. **The ON/OFF light is always blinking and the stove only runs on with a low fire, even though I have the Heat Level on #5.**

If the stove *is* operating on a Thermostat, this usually indicates a problem in the Thermostat circuit. There is either a bad connection in the wires or the Thermostat itself has a problem. Troubleshoot all of the components in the system.

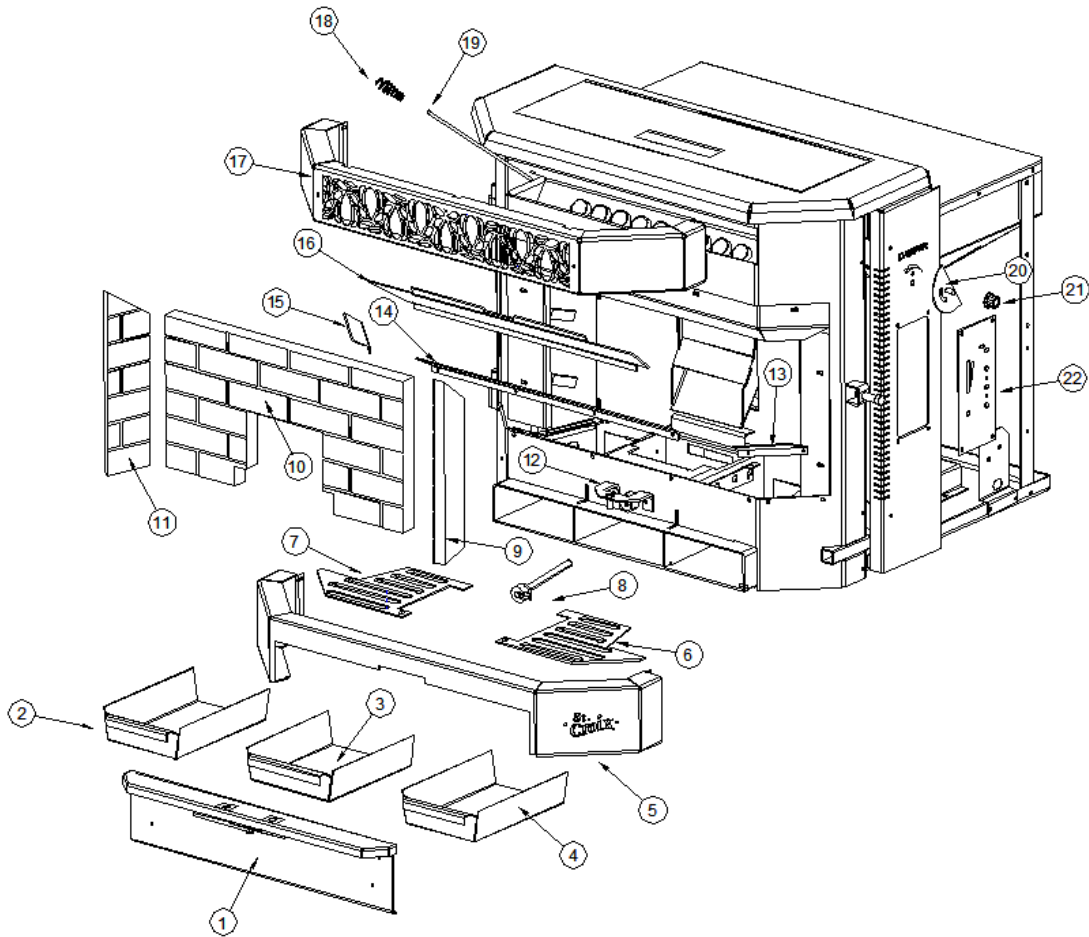
If the stove *is not* operating on a Thermostat, make sure the slide switch on the control board is in the “Manual” position.

12. **I am running my stove on the SmartStat with a Thermostat and I can’t shut the stove down.**

This may also be an indication of a problem in the thermostat circuit or of running the stove incorrectly. If the slide switch with #6 (See figure 2 on page 5) is set to “SmartStat” and the thermostat circuit is calling for heat, the stove cannot be shut off at the control board. You must first shut the thermostat off and then shut the stove off at the control board. If this isn’t possible it may indicate a problem in the thermostat wires from the stove to the Thermostat or a defective Thermostat.

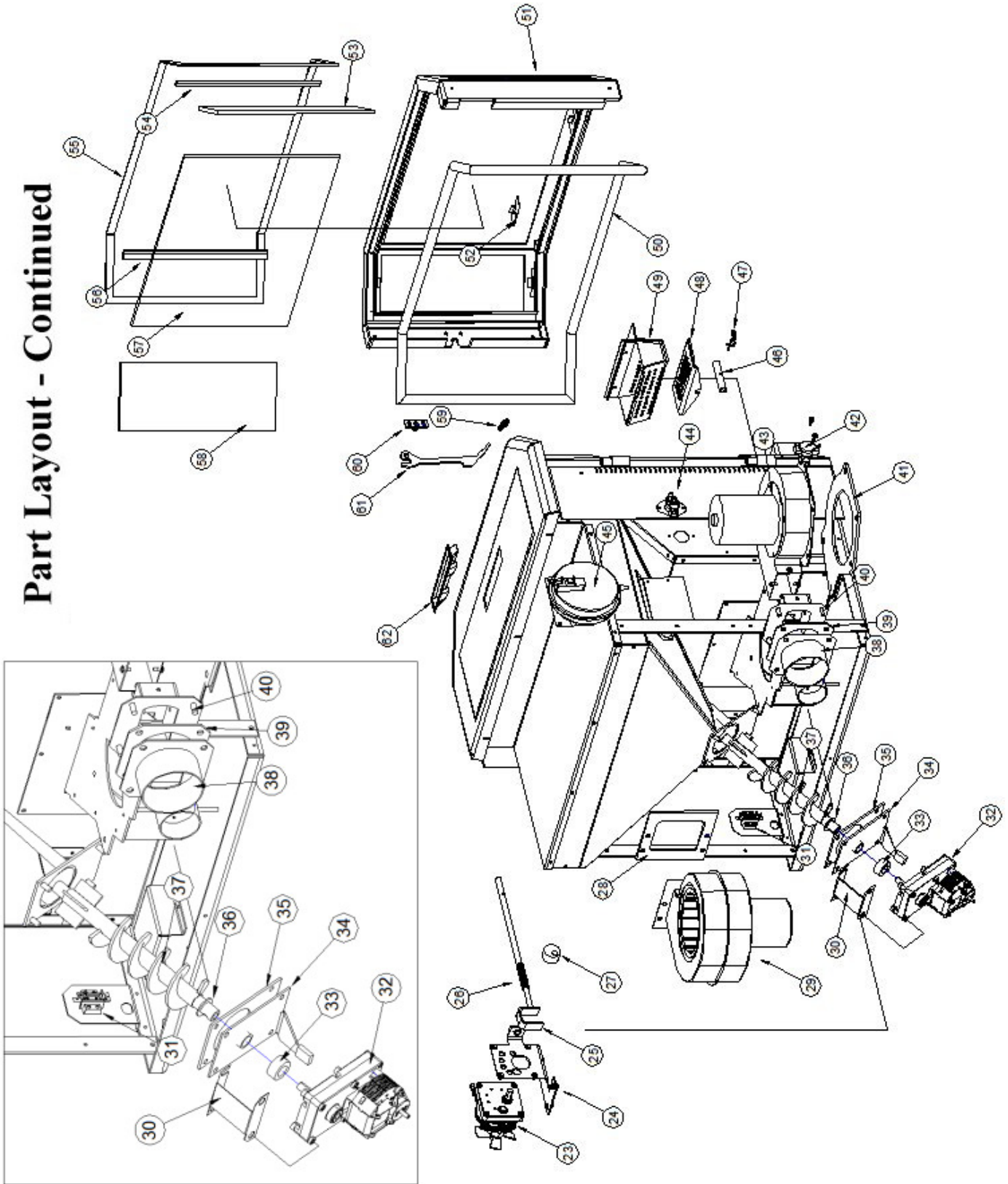
These questions and answers will usually solve most problems that you run into during the break-in period of the stove or if a component fails in the stove. Before calling your dealer for assistance, please read your **Operations Manual** and perform all the maintenance issues covered in the **Daily and Periodic Maintenance** section of the Manual. If the stove still does not operate correctly call your Dealer for Assistance.

York Parts Layout



| # | PART NUMBER | DESCRIPTION |
|----|-----------------|-------------------------------|
| 1 | 80P52893-R | ASH LIP/DOOR |
| 2 | 80P52897-R | SIDE ASHPAN |
| 3 | 80P52899-R | CENTER ASHPAN |
| 4 | 80P52897-R | SIDE ASHPAN |
| 5 | 80P52901-R | LOWER TRIM PANEL |
| 6 | 80P52263-R | DECORATIVE GRILL - RIGHT |
| 7 | 80P52263-R | DECORATIVE GRILL - LEFT |
| 8 | 80P52677-R | IGNITER/HOT ROD |
| 9 | 80P21279-R-LWCR | BRICK PANEL - RIGHT SIDE |
| 10 | 80P21279-B-LWCR | BRICK PANEL - BACK |
| 11 | 80P21279-L-LWCR | BRICK PANEL - LEFT SIDE |
| 12 | 80P53616-R | LATCH BLOCK ASSEMBLY |
| 13 | 80P52144-R | RIGHT ASH LIP |
| 14 | 80P52145-R | LEFT ASH LIP |
| 15 | 80P52146-R | CENTER ASH LIP |
| 16 | 80P52087-R | HEAT EXCHANGE BAFFLE |
| 17 | 80P53770-R | HOT AIR BOX |
| 18 | 80P20306-R | SMALL BRASS COIL |
| 19 | 80P52099-R | TUBE SCRAPER ROD |
| 20 | 80P53788-R | DAMPER CONTROL PLATE ASSEMBLY |
| 21 | 92N4114 | DAMPER CONTROL KNOB |
| 22 | 80P22348-R | CONTROL BOARD |

Part Layout - Continued



| # | PART NUMBER | DESCRIPTION |
|----|-------------|--------------------------------|
| 23 | 80P20296-R | VERSA GRATE MOTOR |
| 24 | 80P53402-R | MOTOR MOUNT ASSEMBLY |
| 25 | 80P53400-R | SHAFT/CAGE WELDMENT |
| 26 | 80P20340-R | VERSA GRATE SPRING |
| 27 | 80P50560-R | CAM |
| 28 | 80P20196-R | CONVECTION FAN GASKET |
| 29 | 80P20000-M | CONVECTION FAN |
| 30 | 80P50899-R | MOTOR RETAINER BRACKET |
| 31 | 80P52630-R | TERMINAL BLOCK |
| 32 | 80P20278-R | AUGER MOTOR |
| 33 | 80P20248-R | 5/8" COLLAR W/ SETSCREW |
| 34 | 80P52957-R | MOTOR MOUNT BRACKET |
| 35 | 80P20245-R | AUGER GASKET |
| 36 | 80P50858-R | AUGER BUSHING WASHER |
| 37 | 80P53666-R | AUGER WELDMENT |
| 38 | 80P52887-R | QUICK CONNECT PIPE ASSEMBLY |
| 39 | 80P52232-R | QUICK DISCONNECT GASKET |
| 40 | 80P53667-R | EXHAUST ADAPTER PLATE WELDMENT |
| 41 | 80P20168-R | COMBUSTION FAN GASKET |
| 42 | 80P20038-R | PROOF OF FIRE SWITCH |
| 43 | 80P20001-R | COMBUSTION FAN |
| 44 | 80P52629-R | MANUAL RESET HIGH LIMIT SWITCH |
| 45 | 80P52628-R | VACUUM SWITCH |
| 46 | 80P50553-R | SPACER |
| 47 | 98360A100 | SSELF LOCKING TWIST PIN |
| 48 | 80P52038-R | SHAKER PLATE |
| 49 | 80P52828-R | GRATE WELDMENT |
| 50 | 80P20026-R | DOOR GASKET – 5/8" ROPE |
| 51 | 80P53724-R | BLACK BAY DOOR FRAME |
| 52 | 80P52796-R | GLASS CLIP |
| 53 | 80P20035-R | BAY SIDE GLASS |
| 54 | 80P20024-R | 3/4" WINDOW GASKET W/ ADHESIVE |
| 55 | 80P20027-R | 5/8" WINDOW GASKET W/ ADHESIVE |
| 56 | 80P20024-R | 3/4" WINDOW GASKET W/ ADHESIVE |
| 57 | 80P20034-R | CENTER DOOR GLASS |
| 58 | 80P20035-R | BAY SIDE GLASS |
| 59 | 80P20131-R | SMALL BRASS HANDLE COIL |
| 60 | 80P53723-R | HANDLE MOUNT PLATE |
| 61 | 80P53773-R | DOOR HANDLE |
| 62 | 80P20183-R | HANDLE PULL - HOPPER |

PARTS NOT SHOWN

| | | |
|----|------------|-------------------------|
| 63 | 80P20004-R | POWER CORD |
| 64 | 80P30074-R | WIRING HARNESS - INSERT |
| 65 | 80P65021-R | HINGE PINS – MAIN DOOR |
| 66 | 80P53787-R | DAMPER CABLE ASSEMBLY |

CAUTION: The electrical components of the stove are not owner serviceable. Call your dealer for proper diagnosis of electrical problems and service to those components.

ST. CROIX YORK INSERT WARRANTY

The pellet insert manufactured by Even Temp, Inc. is warranted for five (5) years, to the original owner, against defects and workmanship on all steel parts (excluding the burn grate) and two (2) year on electrical components from the date of sale to the original owner. There specifically is no warranty on the paint, glass, burn grate, cera board and all gaskets. There is no written or implied performance warranty on the stove, as the manufacturer has no control over the installation, daily operations, maintenance or the type of fuel burned.

This warranty will not apply if the stove has not been installed, operated and maintained in strict accordance with the manufacturer's instructions. Burning other than high quality wood pellets that meet A.P.F.I. specifications may cause stove damage and could void the warranty.

The warranty does not cover damage or breakage due to misuse, improper handling or modifications.

A warranty registration card is provided. The card is to be checked and signed and returned to factory, by the owner. Appropriate information is to be noted on the card.

All claims under this warranty must be made through the dealer where the stove was purchased. If an inspection by the dealer indicates that a warranty claim is justified, and that all conditions of this warranty have been met, the manufacturer's total responsibilities and liabilities shall be to repair or replace, at the manufacturer's option, the defective part(s). All costs of removal, shipment to and from the dealer or manufacturer, any losses during shipment and reinstallation and any other losses due to the stove being removed shall be covered by the owner of the stove.

NEITHER THE MANUFACTURER, NOR THE SUPPLIERS TO THE PURCHASER, ACCEPT RESPONSIBILITY, LEGAL OR OTHERWISE, FOR THE INCIDENTAL OR CONSEQUENTIAL DAMAGE TO PROPERTY OR PERSONS RESULTING FROM THE USE OF THIS PRODUCT. ANY WARRANTY IMPLIED BY LAW, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS, SHALL BE LIMITED TO ONE (1) YEAR FROM THE DATE OF ORIGINAL PURCHASE. WHEN A CLAIM IS MADE AGAINST THE MANUFACTURER BASED ON THE BREACH OF THIS WARRANTY OR ANY OTHER TYPE OF WARRANTY EXPRESSED OR IMPLIED BY LAW, MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR OTHER DAMAGES OF ANY NATURE WHATSOEVER IN EXCESS OF THE ORIGINAL PURCHASE PRICE OF THIS PRODUCT. ALL WARRANTIES BY MANUFACTURER ARE SET FORTH HEREIN AND NO CLAIM SHALL BE MADE AGAINST MANUFACTURER ON ANY ORAL WARRANTY OR REPRESENTATION.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations of implied warranties, therefore the limitations of exclusions set forth in this warranty may not apply to you. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state.

Notes:

After the break in period, please note any adjustments that were made to the Feed Trim and Draft Trim on the control board in the area below. In the event of a power failure or if the units gets unplugged, the trim settings will be lost.

Draft Trim: Circle one (See point 4 on page 4)

Default Draft

Low Draft

High Draft

Feed Trim: Circle one (See point 5 on page 5)

Default Pilot

High Pilot

Low Pilot

Serial Number:

Date of Purchase:

Dealer Information:

**Even Temp, Inc.
P.O. Box 127
Waco, NE 68460**

EMAIL: support@stcroixstoves.com

WEB ADDRESS: www.stcroixstoves.com