

Country flame fireplace insert manual



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Book Descriptions:

Country flame fireplace insert manual



For a better experience, please enable JavaScript in your browser before proceeding. It may not display this or other websites correctly. You should upgrade or use an alternative browser. Its got the wheat etched glass maybe they all do but maybe thatd help with the era. The owner told me it was a Cat stove and that it was very efficient. He also said that the stove was able to be installed very close to the wall because of the sheild. Anyways, before I go installing I want to make sure I know the requirements. Is it possible to find this or a manual for an older stove like this. Id say its early 90s. Its pretty rusty and needs new glass. I should be able to tackle that without problems. Excited to have my first stove. Got it at a bargain of a price too. And I mean a bargain. Not much to look at but will be nice when Im done. Its got a nice roomy fire box. Im sure itll cook! Because I burn mostly pine here in CO, because it is free, I have to clean out my stove pipe about every week or two when I use the stove 24x7. You know when it is time as smoke will puff back in due to too much back pressure. About every five years I need to buy a new catalyst combustor. Several places to get them, but you can buy directly from the manufacturer Applied Ceramics at www.appliedceramics.com. They make all sorts of combusters from small stoves to very large industrial combusters. When cleaning the stove I always just blow out the combustor with compressed air and for those holes that are still plugged I use a small allen wrench to carefully push out any debris. The combustor is made of ceramic so you need to be careful. If you break any of the ceramic replace it. You also know when you need a new combustor if after you have everything well cleaned stove, pipes, combustor and smoke puffs back in your house when you have the catalytic bypass closed and the stove is at the proper operating temperature. <http://www.creativelook.com.my/userfiles/fisheye-2-lomography-manual.xml>

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Since you are installing this for the 1st time you want to make sure you have the right pipe size. If it is too small or if you have too many elbows you can also create too much back pressure causing the catalyst combustor to plug up resulting in smoke puffing back in the house. Another tip of an issue with the combustor is if you have to leave the combustor bypass slightly open to prevent smoke blowback. When I first started using my stove it had a rubber plug in the hole. This hole is for a flu gas thermometer. The one I prefer that is the correct length for my stove is. My stove works best with a flu gas temperature between 800-900. Flu gas temperature is not the same as stove pipe temperature. Most people don't understand the differences between flu gas, stove box, and stove pipe temperatures and end up running their stoves too cool. If your flu gas temperature is optimal all the other temperatures will be perfect if everything is installed correctly. It's probably a 90s era stove. It's not burning well and probably needs a new Catalytic Combustor. Maybe you can answer this question. I can't get the flame guard off. It has four bolts they're more like studs; they don't have heads. Each stud has two nuts one above the guard and one below. Are they reverse threaded Or is the whole stud itself meant to be removed Thanks for any help. By continuing to use this site, you are consenting to our use of cookies. Bring Your Fireplace To Life. Download and Read Country Flame Fireplace Insert Model M Manual Country Flame Fireplace Insert Model M Manual. LS180 Skid Steer LMU005250. Country Flame Fireplace Insert Model M Manual from facebook. Crane Services Country Flame Fireplace Insert Model M Manual edit. I bought this tractor of industrial sales knowledge year ago as a actually supplies 20 amps clear vision of the using for work. The parts manual shows the visit to our and components and how. Country Flame Pellet Stove. Once you buy the and Above Operators Manual, 166 pages. <http://tonfiskburk.se/media/fisheye-lomography-manual.xml>



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Understanding this manual should be completed and followed before installation or operation of the CF04 is attempted. Page 3 WARNING Maintain all minimum safety clearances of the Crossfire stove and chimney system. Never install the Crossfire in a sleeping room. WARNING The Crossfire is

designed and approved for burning of number 2 yellow shelled corn with a maximum moisture content of 14% or industry approved wood pellet fuel. Any fuel used in this stove must meet or exceed APFI standards. Do not burn untested fuels or foreign materials in this product. Page 4 CAUTION Operate the Crossfire with the fuel hopper lid closed at all times. Failure to keep the hopper lid closed during operation may result in the release of combustion gasses into the home from the hopper under certain conditions. Maintain the Crossfire hopper seal in good condition and do not overfill the hopper. CAUTION The stove controls the rate of fuel fed into the fire pot. Never do anything to overfeed fuel or cause over firing of the Crossfire. Page 7 MOBILE HOME INSTALLATION.32 MOBILE HOME RULES.32 MOBILE HOME CLEARANCES.32 MOBILE HOME STOVE ATTACHMENT. Page 8 FORWARD INTERNATIONAL ISSUES Global concerns about climate change, along with rising world oil prices, are creating unprecedented interest in the development of economical and convenient renewable energy fuel burning products. For the past several decades, pellets made from wood waste have been marketed and have gained wide acceptance as a home heating alternative. In addition, there has long been a “grass roots” effort to utilize biomass feedstock as a viable heating fuel. Page 10 CROSSFIRE LIMITED WARRANTY continued c Warranty Service and Freight Costs. Service on a Crossfire Model CF04 will be provided by any Country Flame authorized dealer or distributor.

If there is no authorized dealer or distributor in the original retail purchaser’s area, the original retail purchaser may notify Country Flame at 900 George Street, Marshfield, Missouri, 65706 of any defect by providing the following information 1. The Serial Number of the Crossfire Model CF04 2. Page 11 Place Stamp Here Country Flame Technologies A Division of American Products, LLC 900 George Street Marshfield, MISSOURI 65706 Fold Here Name City Dealer Dealer’s Name City Date of Purchase Model No. Address State Zip State Zip Serial No. Page 12 THE CROSSFIRE OPERATION FEATURES Country Flame designed and built the Crossfire stove to burn 100% shelled corn. Unlike conventional pellet stoves, the Crossfire was designed to handle large amounts of ash. This means the Crossfire is capable of burning corn or wood pellets while reducing the possibility of choking the fire from ash residue. Page 13 FIGURE 2 CROSSFIRE COMPONENTS SAFETY FEATURES The Crossfire comes standard with a number of advanced safety features; however, to ensure maximum safety install the stove according to all national and local codes and follow all operating and maintenance procedures. The Crossfire requires a fresh air supply to ensure proper combustion. This fresh air is used in the combustion process to achieve thorough burn of all fuel. The Crossfire needs a sealed and properly designed exhaust flue system. Page 14 need to provide backup power to ensure stable operation of the Crossfire. Fortunately, there are simple, reliable, and cost effective power backup solutions available. Today, a homeowner can choose from a variety of power conditioning systems from a number of “big box” retail stores. For example, Home Depot, Circuit City, Best Buy, WalMart, or other stores carry standard power conditioning equipment. Two good quality power conditioning equipment manufacturers are APC and TrippLite.

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Page 15 DENSITY Pellet density measured in pounds per square foot determines the maximum amount of energy that can be delivered to the combustion chamber. Low density fuels may cause the fire to go out on low heat settings without proper adjustments to the airtofuel ratio. SALT Salt in pellets can cause stove deterioration rust. The Pellet Fuels Institute is participating in tests to determine the effects of salt and the most accurate methods of measurement. Page 16 combustion process. As heat settings are changed on the IntelliChoice control board, the stir rod speed will automatically be adjusted to more closely match the feed rates of the different heat settings. The stir rod assists in minimizing “clinker” buildup in the burn pot. If the proper airfuel mixture is set by the homeowner, the Crossfire will generate a very fine ash rather than clinkers. Each function of the

Control Board is identified. Controls having more than a single function are identified with asterisks. All control board functions are explained in FIGURE 6. "IntelliChoice" Country Flame Logo, AC Power is present when logo is lit. When in the prime mode the Thermostat lights will sequentially light from top to bottom simulating a "filling action" of the auger tube. Page 20 In order to utilize the full capabilities of the Control Board, the homeowner should be familiar with the backside of the Control Board. FIGURE 7 provides additional information about the major components on the component side of the control board. FIGURE 7 CONTROL BOARD COMPONENT SIDE Version 2. Page 21 STOVE ELECTRICAL DIAGRAM FIGURE 8 provides the Harvester electrical schematic of the components and sensors that are either operated or monitored by the Country Flame control board. Please refer to this diagram when necessary. FIGURE 8 ELECTRICAL DIAGRAM optional manual igniter shown Version 2. Page 22 STOVE SPECIFICATIONS TABLE 2 shows the physical dimensions of the Crossfire product.

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The stove will operate at the selected Heat Level until such time as the thermostat stops calling for heat. The IntelliChoice Control Board will then return the stove back to heat level 1. Page 24 INSTALLATION INSTALLATION PREPARATION Country Flame strongly recommends the Crossfire be installed by a certified professional. Improper installation will create longterm operational and maintenance problems that will plague the homeowner until corrected. The first step is to ensure all necessary parts are available to complete a proper installation. Country Flame recommends a homeowner purchase the Crossfire from an authorized dealer who both knows and supports Country Flame product. Page 25 installation into an approved masonry or zero clearance fireplaces, the use of single or doublewall flue pipe will not affect the clearance distance from the unit to any combustible materials. DEFINED MINIMUM DISTANCES TO COMBUSTIBLES A. UNIT TO SIDEWALL B. UNIT TO SIDE TRIM C. UNIT TOP TO TOP TRIM D. UNIT TOP TO MANTLE E. HEARTH FLOOR TO MANTLE F. NONCOMBUSTIBLE FLOOR PROTECTION, front G. NONCOMBUSTIBLE FLOOR PROTECTION, sides CLEARANCE 7" 7" 9.25" 9. Page 26 shroud can be moved left, right, or centered on the Crossfire depending on the requirements of the hearth. The installer should make final adjustments to properly locate the top shroud on the Crossfire and then tighten the two nuts. The top shroud is now properly positioned and secured in place and the installer can proceed to install the left and right shroud panels. FIGURE 11a CROSSFIRE SHROUD rear view 3. Page 27 4. The installer should now install the fiberglass insulation on the back face of the shroud system as shown in FIGURE 11c and 11d. One roll of insulation is required for a standard, CF049200, shroud and two rolls of insulation are required for an oversized, CF049210, shroud. Sealing the shroud system minimizes draft and reduces vibration noise during operation of the stove. Page 28 6.

The installer should now place the trim black or gold as purchased around the edges of the shroud panels. Once installed, if the bottom left or right side trim pieces want to pull away from the shroud panel, a small amount of RTV silicone may be used on the backside of the shroud panel to hold the trim in place. Close and secure both Crossfire side access doors. Installation is now complete and the Crossfire can be moved into its final location. Page 29 CHIMNEY It is extremely important that a Crossfire stove be vented into a non defective, clean, and properly lined chimney. The chimney system must conform to all local building codes. In the event a masonry chimney is not used, a listed factorybuilt chimney suitable for use with solid fuels should be used. This listed factorybuilt chimney system must conform to ULCS629 Canada or UL 103HT United States. Page 30 combustion. In all cases, the flue must be relined with a listed liner system, such as HomeSaver Chimney Liner. If your masonry built chimney contains oversized flue tiles it must be relined to ensure proper draft. This means that a new, properly sized liner system must be installed before connection to the Crossfire stove is completed. Again, for 10 feet or less a 3 inch stainless steel liner can be used with the

Crossfire. For lengths greater than 10 feet, a 4 inch stainless steel liner is to be used. Page 31 carpet to come in contact with any part of the Crossfire insert. Maintain clearances to OUTSIDE AIR COMBUSTION It is imperative that the installer and homeowner ensures that a minimum of at least eight square inches fifty square centimeters of outside air be admitted to the hearth room or directly to the Crossfire. If installation allows, the Crossfire fresh air intake should be connected through an exterior wall. Page 32 MOBILE HOME INSTALLATION WARNING DO NOT INSTALL A COUNTRY FLAME CROSSFIRE STOVE IN ANY MOBILE HOME SLEEPING ROOM.

Manville's CERAFORM 126 is an example of an approved insulated wall protector. This product has a K equal to .27 and is a half inch thick. Total thermal resistance should exceed 1.5 for any material used to ensure proper thermal protection of a combustible wall. MOBILE HOME STOVE

ATTACHMENT 1. Install combustion air to the back of the Crossfire in all mobile home applications.

Page 34 3. At no time should a floor protector be placed on top of carpeting. Carpeting must be removed and the floor protection should sit directly on the uncarpeted portion of the mobile home floor. Floor protection should extend to the front, sides, back, and under the chimney connector as defined for a specific model listed in this manual. In the event there are floor protection questions, contact Country Flame or one of its local authorized dealers for assistance. MOBILE HOME

CHIMNEY AND DUCTS 1. Page 35 height, ceiling slope, roof pitch, attic insulation, attic height, and surrounding objects. Use a certified professional to install a flue gas pellet venting system. Do not deviate from the pellet flue manufacturer's installation instructions. Contact Country Flame or a local authorized dealer to resolve any questions or installation procedures. TABLE 4 shows the required components needed for a typical pellet flue pipe mobile home installation. Page 36 FIGURE 15 MOBILE HOME CHIMNEY INSTALLATION Version 2. Page 37 MAINTENANCE

REQUIREMENTS GENERAL REQUIREMENTS The Crossfire Model CF04 has minimal maintenance requirements; however, failure to perform cleaning or maintenance items will lead to degraded performance and potential safety hazards for both the home and its occupants. The Crossfire stove should not be operated routinely without thorough monthly cleaning or more often depending on frequency of use. The three most common maintenance chores will be a b c Refilling the hopper with fuel as needed.

Page 38 STOVE DOOR ADJUSTMENT The Crossfire door may require fine adjustment due to variations in the door, the gasket material, due to hinge wear, or to maintain a center aligned appearance. The Crossfire door needs to remain airtight to ensure proper firebox operation. The Crossfire door can be adjusted up or down and left or right with the adjustable hinge pins as shown in FIGURE 16. The door gasket can also be adjusted to improve on the airtight fit. Page 39 the door glass. Removal of these glass retaining clips can be accomplished with household tools. Order the necessary replacement screws or glass clips when ordering glass to ensure worn parts are replaced. Page 40 In order to thoroughly clean the exhaust chamber, the Crossfire has two cleaning ports that provide access to the exhaust chamber. In order to gain access to these cleanout ports, the hearth plate must be removed from the front of the Crossfire. FIGURE 18 shows the hearth plate removed from the stove. There is one screw, located in the front center of the hearth plate that must be removed before the hearth plate can be lifted up and out of its location. Page 41 inefficiently.

FIGURE 20 shows an xray view into the cleanout port of the right side of the Crossfire. This right side cleanout port allows access to the right side exhaust chamber and underneath the exhaust fan itself. There is no access to the chimney connector and clean out T box but a powerful vacuum will be able to suck considerable amount of ash from the chimney box thus assisting in proper maintenance of the stove. Page 42 APPENDIX A TROUBLESHOOTING GUIDE Shut off the power to the unit and allow it to cool off when performing cleaning and maintenance. Ignition PROBLEM SOLUTION Fire does not start. Ensure proper amount of pellets and starting gel are in burn pot. The starter fire in the firepot has not ignited or is not burning properly. Using gloves carefully open the doors and relay the pellet fire.

Wait 810 minutes for the pellets to burn well, before restarting the system. Regular Cleaning Removing and cleaning the Firepot Removing "Clinkers" Soot and Flyash Build Up Thorough Cleaning Cleaning the Heat Exchanger. Version 2.0e 44 The firepot can be removed by removing 2 bolts. Slide the keeper sleeve off of the stir rod gear shaft exposing the linkage. Rotate the stir rod until the slot is vertical. Creosote builds up on glass quicker when a fire is burned at lower heat settings. DO NOT use abrasive cleaners on glass. Glass may crack if subjected to cold liquid cleaners while the glass is still hot. Using cleaner on hot glass may also cause burns, emit fumes and the glass is more likely to stain. Remove the door gasket you may need to use pliers and then remove the glass retaining clips and remove glass. Strip off old gasket around glass and clean glass well. Clean out old stove gasket material from gasket track. Approaching the control panel no lights will be illuminated. The stove has now entered the "startup" phase. Pellets should have already been placed in the burn pot only required if 100% corn fuel is being used. During the cool down phase the room, exhaust, and stir pot motors will be operated at high speed. The auger motor will cease to operate thereby ensuring minimal time for the burn phase to be extinguished. The prime state is utilized only for filling the auger with fuel and can only be utilized from an "off state." The Stir Rod is controlled by the control board in one of two states a when the system is shutdown, and b when the system is in the burn phase. The purpose of the stir rod is to mix the fuel and air to ensure a more efficient burn. During normal burn phase operation, the control board controls the motion of the stir rod.

Page 51 APPENDIX E COMBUSTION BASICS An understanding of Combustion Basics will assist in resolving problems with a variety of fuels, changing product and environmental conditions during the operational life of a stove. Just exactly what are pellet or corn stove products suppose to do. To sustain combustion, the heat evolved must maintain this temperature to provide a constant supply of vapors. Excess Air Any air added to the combustion process above the theoretical value defined as 100% efficiency. A combustion system operated exactly at the peak burn efficiency ratio has a high probability that some of the oxygen in the combustion air will not get paired up with the fuel. Page 53 The obvious advantage of wood pellets over conventional chopped wood logs is the consistency of the fuel both from a size and moisture content. Nature has done a great job of making field corn a palletized fuel that can have even more energy than wood pellets. These palletized fuels burn more efficiently than their wood log counterparts. The heat generated in the burn process, once combustion is achieved, sustains the process as more fuel is added. Page 54 As a final note, the four basic stages of wood pellet burning are a Up to 212o F the pellet is boiling of the moisture. The pellet will simply seem to disappear. Very little energy is released in these first two stages and external energy must be applied to sustain any combustion that is occurring.

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