Efel harmony 2 oil stove manual

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Contact local building or fire officials about restrictions and installation requirements in your area.ENSURE THAT THIS MANUAL REMAINS WITH THE APPLIANCE AND ISPASSED ON TO THE USER AFTER INSTALLATION.DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPOURS ANDLIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.WARNING: Improper installation, adjustment, alteration, service or maintenance can causeinjury or property damage. Refer to this manual for assistance or consult aqualified (experienced) installer.SPECIAL NOTE:Crazing is a normal occurrence when enamel is exposed to high temperatures. Your enamelfinish will not be harmed nor will the function of the stove be impaired.SPECIAL NOTE: A barometric damper is recommended for installation must be only in unitswith a newly constructed chimney, free of creosote deposits. The barometric damper is an automatic device designed to regulate the draft in a heating appliance, which inturn, stabilizes the chimney temperatures, lessening the potential of over-firing. Donot place the barometric damper greater than 24 inches (610 mm) above the unit. Excessive draft will lead to poor control of the burning rate and possible over-firing of the stove and damage to the cast iron firebox. Most barometric dampers arecalibrated in inches of water column and can be set to draft requirements of -.03 to .08 inches. THE RECOMMENDED DRAFT REQUIREMENTS FOR EFEL STOVES IS NO LESSTHAN -.04 AND NO GREATER THAN -.08.OPERATION OF YOUR STOVE WITH A DRAFT GREATER THAN -.08 CANPOSSIBLY CAUSE DAMAGE TO THE STOVE AND VOID THE WARRANTY.395823110a3Page 3PRODUCT SPECIFICATIONSStanford 80 & Harmony IIIFlue collar size: 6"Flue position: topMax. burn rate: 87,000 BTU/hrEPA Output range:11,500–55,000 BTU/hrParticulate emissions: 4.42 g/hrHeating capacity: 1300-1800 sq ftMax. burn time: up to 8 hoursMax. log length: 18"Loading: front and sideWeight: 303 lbs.Flue collar size: 6"Flue position: topMax burn rate: 96,600 BTU/hrParticulate emissions: 2.72 g/hrHeating capacity: 1800 2500 sq ftMax. burn time: up to10 hoursMax log length: 22"Loading: front and sideWeight: 386 lbs.Testing / ListingYour Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc., Beaverton, Oregon.EPA CertificationThe Efel wood stove has been tested to UL Standard 1482 by OMNI-TestLaboratories, Inc. Environmental Protection Agency.WARNING: • DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVINGANOTHER APPLIANCE. • UNIT MUST BE INSTALLED ACCORDING TO ALL LOCAL CODES. A BUILDING PERMIT MUST BE OBTAINED BEFORE INSTALLING. • SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. • DO NOT INSTALL IN A MOBILE HOME. • READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING THEINSTALLATION. • UNIT MUST BE PROPERLY INSTALLED OR LISTING WILL BEVOID. • INSTALLED OR LISTING LISTING.395823110a4Page 4DimensionsBADCModel Stanford 80 Stanford 140 Harmony III A 24" 29" 23³/₄" 29" B 28¹/₂" 15¹/₂" 16¹/₂" 7¹/₂"6¹/₂" 7¹/₂"6¹/₂" 7¹/₂"6¹/₂" 7¹/₂"6¹/₂" 7¹/₂" 6¹/₂" 7¹/₂ 7INSTALLATIONClearances to Combustibles - Stanford 80 & Harmony IThe following clearances may only be reduced by means approved by the regulatoryauthority. Refer to chart for single or double wall Double wall Clearances may only be reduced by means approved by the regulatoryauthority. Refer to chart for single or double wall Double wall Double wall Double wall Double wall Clearances may only be reduced by means approved by the regulatoryauthority. Refer to chart for single or double wall Doubl 7'Corner ClearancesConnector pipeSingle wallDouble wallE19''11''F27''19''Minimum Ceiling Height: 5'395823110a7Page 8Clearances may only be reduced by means approved by the regulatoryauthority. Refer to chart for single or double wall pipeBack and Side Wall ClearancesConnector pipeSingle wallDouble wallA18''14.5''B13''10''C32''28.5''D20''17''Minimum Ceiling Height: 7'395823110a8Page 9Standard Installation1. Position the unit no closer than the minimum clearances to combustible materials. Check that no overhead cross members in the ceiling or roof will becut. Reposition unit if necessary, being careful not to move closer than theminimum clearances. A non-combustible floor protector (hearth extension) must be installed underthe unit. The floor protector must extend a minimum of 16 inches (450 mm) beyond the front and side doors and 8 inches (200 mm) beyond the left side. The floor protector must be equivalent to 1/2 inch (9.5mm) with a k factor of atleast 0.84 Btu/inch°FDetermining thickness of alternate materials: k of the alternate materials of the specified material sthickness of specified material = thickness of alternate material For example common brick has a k value of 5.0. The following would determine the thickness necessary: 5.00.84x1/2 inch = 3.0 inches of common brick3. Mark the position of the required floor protector on the floor. Remove the unitand install the floor protector. 4. Position the unit on the floor protector at the proper clearances.5. Install a 6-inch diameter, minimum 24 MSG black or 26 MSG blued steelconnector pipe on the flue collar of the unit. •The stove is NOT to be connected to any air distribution duct or system. •A chimney connector shall not pass through an attic or roof space, closet or similar concealed space, or a floor, or ceiling. Where passagethrough a wall or partition of combustible construction is desired, theinstallation shall conform to CAN/CSA-B365, Installation s chimney connector should all point down for adrip free installation. Position all seams toward the back for aesthetics. Thechimney connector must be 6-inch diameter.395823110a9Page 107. Check that all clearances are still within the allowable tolerances.8. Secure adjoining sections of chimney connector to each other using three equally spaced sheet metal screws. Secure the connector pipe to flue collarusing three equally spaced sheet metal screws. DO NOT secure chimney with a flue liner, ora 6 inch diameter factory built chimney complying with the requirements for Type HT chimneys in the standard UL 103. Minimum Chimney and vent shall be so designed and constructed to develop a flow sufficient to completely remove all flue and vent gases to the outside atmosphere. Theventing system shall satisfy the draft requirements of the connected appliance inaccordance with the manufactures instructions. The "3-foot, 2-foot, 10-foot rule" on chimney must be: 1. at least 3 feet higher than the highest part of the roof opening through which itpasses, 2. and at least 2 feet higher than any part of the roof within 10 feet, measuredhorizontally.2'10'3'395823110a10Page 12Freestanding InstallationsIf the chimney, follow the recommendations in the Wall Pass-Throughsection that follows. The opening through the chimney connector must pass through the chimney follow the recommendations in the Wall Pass-Throughsection that follows. The opening through the chimney connector must pass through the chimney follows. wall to the flue (the "breach") must belined with either a ceramic or metal cylinder, called a "thimble", which issecurely cemented in place. Most chimney breeches incorporatethimbles, but the fit must be snug and the joint between the thimble and the joint between the thimble and the snug and the joint between the thimble shows a snug and the joint between the thimble and the joint between the joint betwee diameterthan standard connectors and most thimbles, will facilitate the removal of the chimney connector system for inspection and cleaning. Thimble sleeve, slide it into the breech until it is flush with theinner flue wall. Do not extend it into the actual flue passage, as it could interfere with the draft. The thimble sleeve should protrude 1-2" (25-50 mm) into the room. Usefire cement and thin gasketing to seal the sleeve in place in the thimble. Secure the chimney connector rises from the stove, turns 90°, and then goes a fireplace. into the fireplace chimney (Fig. B) The liner of the fireplacechimney should extend at least to the point at which the chimney connector enters the chimney connector enters the chimney from a freestanding masonry chimney. the ceiling: 18" minimum.• The fireplace damper must be closed and sealed to prevent room airfrom being drawn up the flue, thereby reducing the draft. However, itmust be possible to re-open the damper to inspect the chimney.Wall Pass-ThroughsWhenever possible, design your installation so that the wall connectordoes not pass through a combustible wall. If you are considering a wallpass-through in your installation, check with your building inspector beforeyou begin. Also check with the chimney connector manufacturer for anyspecific requirements. Accessories are available for use as wall passthrough. The National Fire Protection Association (NFPA) has established guidelines for passing chimney connectors through combustible walls. 395823110a12Page 13Many building code inspectors follow these guidelines when approving installations. The methods approved by the NFPA are: • Cutting away all combustible material in the wall a sufficient distance from the single wall connector, to provide the required 12" (300 mm)clearance for the connector. Any material used to close the openingmust be noncombustible (as in Fig. C). Using a section of double-wall chimney with a 9" (230 mm) clearance to combustibles. Placing a chimney connector pipe inside a ventilated thimble, this isthen separated from combustibles by 6" (150 mm) of fiberglassinsulating material. • Placing a chimney connection of 9" (230 mm)diameter, solid-insulated factory built chimney, with two inches of airspace between the chimney section and the combustibles. ChimneyA. freestandinginstallationinstallationChimneyB.ChimneyconnectorconnectorconnectorenterschimneyaboveabovethethefireplacefireplaceAnAnC.approved wallfor thepass-throughUnited States395823110a13Page 14GUIDELINES FOR SAFE OPERATIONDue to high temperatures, the appliance should be located out of traffic andaway from furniture and draperies. Advise all adults and especially children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. Supervise young children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. Supervise young children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. Supervise young children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. Supervise young children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. Supervise young children to be alert to the hazard of hightemperatures and that they should stay away to avoid burns. circulating air passageways of the appliance be kept clean. The appliance should be inspected before use and the chimney cleaned atleast annually. More frequent cleaning may be required due to poor operation, installation, or low quality fuel. CAUTION: • Hot while in operation. Do not touch. Keep children, clothing and furnitureaway. Contact may cause skin burns.• This room heater is a heat producing appliance and may cause severeburns if touched. Keep children away.• All furnishings and other materials should be kept a considerable distancefrom the appliance.• Do not over-fire. If any portion of unit or chimney connector starts to glow, you are over-firing. This unit is designed as a radiant room heater and should be used for no otherpurpose. Be sure to provide combustion air into the dwelling when using theappliance. A partially open window or outside air register in the vicinity of theunit would be acceptable for this purpose. Unattended for an extended period of time. These fires normally occurbecause combustible materials close to an appliance become heated to theignition point by an over-fired appliance which the operator thought was safely throttled down."Fire intensity is a function of several factors. One of these factors is draft.Normally, increasing draft increases fire intensity is a function of several factors. Conversely, increasing thefire intensity will increase draft. Draft can also be affected by external factorssuch as wind strength and direction, outside temperature, airflow in or out of the structure, and so forth. If one of these factors changes, the draft of a lowburning appliance may increase. This increased draft may cause dangerously high temperatures to develop, possibly causing failure of the unit or flue, orignition of nearby combustibles. Closing down the combustibles. Closing down the combustibles. Closing down the combustibles. Closing down the combustibles. Harmony I) or 22 inches inlength (for Stanford 140 & Harmony III) allow for better stacking, filling and operation of your stove. Use dry wood which has been dried undercover for more than 18 months, in which case the logs contain less than 20% moisture. ••• DO NOT USE FUELS OTHER THAN SEASONED WOOD.NEVER USE GASOLINE, GASOLINE, GASOLINE, TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE.DO NOT BURN TRASH, GARBAGE OR FLAMMABLE FLUIDS SUCHAS GASOLINE, NAPHTHA OR ENGINE OIL. Heating the air in a closed building decreases the relative humidity of the air, which will dry wood and other combustible materials. This drying lowers theignition temperature of these materials, thus increasing the fire hazard. Toreduce the risk of fire, some provision should be made for replenishingmoisture tcm. the air whenever a structure is being heated for extended periods. What is the best wood for the fire? Some types of wood are easier to light than others. The best fire wood is always the driest wood is always the driest wood is always the driest wood. Using dry wood will minimize creosote build-up. What are the drawbacks of damp wood has far less heating power. This lowers the vood is always the driest wood is always the driest wood. Using dry wood will minimize creosote build-up. What are the drawbacks of damp wood has far less heating power. This lowers the vood is always the driest wood is always the driest wood. Using dry wood will minimize creosote build-up. What are the drawbacks of damp wood is always the driest wood. Using dry wood will minimize creosote build-up. What are the drawbacks of damp wood is always the driest wood. Using dry wood will minimize creosote build-up. 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What are the drawbacks of damp wood will minimize creosote build-up. What are the drawbacks of damp wood will minimize creosote build-up. What are the drawbacks of damp wood will minimize creosote build-up. Wh combustiontemperature of the fire, and therefore the output. It is difficult to light, burnsbadly and gives off smoke. Above all the use of damp wood causes the formation of deposits (tarring and soot staining) in the chimney flue and on the glass door. Flue gas temperature of the fire, and therefore the output. It is difficult to light, burnsbadly and gives off smoke. Above all the use of damp wood causes the formation of deposits (tarring and soot staining) in the chimney flue and on the glass door. Flue gas temperature. temperature. If the combustion of the fuel is at the correcttemperature, most of the soot and tars (hydrocarbons) are burned. Thesehydrocarbons) are burned. Thesehydrocarbons, when not burned, can be seen as tar and creosote deposits on the internal surfaces of the stove, glass and chimney surfaces. To assist inmaintaining these temperatures, a surface mounted stove thermometer is recommended. High combustion temperatures are the secret to clean glass operation. When loading wood, add one or two logs at a time, depending on size. Loading the 395823110a15 Page 16 appliance full of damp wood on a low fire is certain to cause poor combustion efficiency, resulting in tar and dirty glass. It is recommended that you heat your stove to at least 400°F before reducing the air controls. This procedure should always be carried out after reloading. Storage time for woodWood supplied in ready-cut lengths stored immediately under a ventilated shelter dries quicker than wood stocked in high piles. Quarters (split wood)dry quicker than round logs. Wood which is too small to split must be drained, by removing some of the bark. Round logs left in the open for more than ayear end up rotten. The drying time for the fire wood must be at least 18months to 2 years. This period can be shortened (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter.395823110a16Page (12 to 15 months) if the wood is cut to 15 months (12 to 15 months) if the wood (12 to 1 170PERATING INSTRUCTIONSAir intake controlsPrimary Air Control allows you to adjust the rate of burn. Sliding the lever to the left decreases air intake, resulting in higher flames and a cleaner burn. Adjustable Primary Air Control(All Models)Start-up Air ControlAdditional air for start-up can be supplied from the ignition booster air control, located on the back right corner of the Stanford 140 and Harmony III models. This can be especially helpful when your chimney is cold. Sliding the lever to theright increases air for start-up. Five minutes after lighting the fire, close theignition booster air supply by sliding fully to the left. Do not operate the stove forlong periods of time with the ignition Booster open. Start-up Air Control for Ignition Booster (Stanford 140 and Harmony III only)395823110a17Page 18Starting a Fire1.2. Fully open the primary air control. Place a small amount of paper in the firebox and cover with a few pieces ofkindling.Light the paper in the stove.Once the kindling is burning quickly, add several pieces of wood. Becareful not to smother the fire. For best results, use smaller pieces of wood for sustained burns.Load logs evenly across the base being cautious not to place wood in front of the rear edge of the log guard. Close the loading door. With the primary air control open to its maximum, open the stove door afraction and burn for 5 minutes. Then close the stove door. Never leave thestove unattended when the door is open. Adjust the primary air control depending on the temperature of the stove door. Never leave the stove door. prevent smoke blowing into the room follow these recommendations: 1. Open the primary air control to allow fire to recover for a few minutes. 2. Close the primary air control and open the loading door. 3. Rake the embers towards the front of stove. 4.5.6.7.-Feed the logs to the embers. Try to use side loading door as it will allow forcleaner operation. Load logs evenly across the base being cautious not toplace wood in front of the rear edge of the log guard. Close the loading door. Open the primary air control to its maximum, open the stove door a fractionand burn for 5 minutes. Then close the stove door. Never leave the stoveunattended when the door is open.Adjust the primary air control depending on the temperature of the stoverequired. In order to maintain an attractively burning fire, logs should be up to 18"long (Stanford 80 and Harmony I) or 22" long (Stanford 140 and Harmony I) or 22" long (Stanford 140 and Harmony I) or 22" long (Stanford 80 and Harmony I) or 22" clean glass operation. When loading wood add one or two logs at a time, depending on size.395823710a18Page 19Loading the appliance full of damp wood on a low setting, is certain tocause poor combustion efficiency resulting in tar and dirty glass. Always allow the stove to recover before closing for long burning. Overnight burning for long burning for long burning. appliance with wood and close all air supplies, it is possible to achieve overnight burning, though it is probable that the glass clean, we recommend you do not shut the primary aircontrol completely but to leave it slightly open, depending on how thechimney draws, to achieve slow burning for a maximum of eight to tenhours (with dry, good quality wood such as oak...). With a good drawingchimney the air control will need to be closed further than with poordrawing chimneys. Disposal of AshesEmpty the ash from spilling over. Do notallow ash to build up and touch the under side of the grate. A layer of ashleft over the grate when burning wood will protect the grate, retain heat, and promote clean combustion. CAUTION: ASH PAN MAY BE HOT. USE HIGH TEMPERATUREGLOVES. To remove the ash from the stove, operate the oscillating grate using thehandle provided. Open the ash pan door, attach handle to ash pan andremove. Place cover over ash pan. The tool provided for removal of the ash pan should not be used to carry the ash pan. Use gloves andhold ash pan on both sides. Place ashes in a metal container of ashes should be placed on a non-combustible floor or on theground, well away from all combustible floor or on theground. disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.395823110a19Page 20MAINTENANCEWARNING: DO NOT CLEAN STOVE WHILE HOT.1. Always keep the area around the unit clean and clear of furniture and drapery a minimum 36 inches (914mm) from the heater.2. Clean the door glass with glass cleaner or all-purpose cleaning solution. The glass used is a ceramic type, which can only be broken by impact ormisuse. Do not clean with materials that may scratch or otherwisedamage the glass. Scratches on the glass can develop into cracks orbreak. Inspect the entire unit frequently for proper operation, fit and soundnessof parts. If any malfunctioning, cracked, broken, or loose parts or otherproblems are noted, contact your dealer or qualified serviceman to inspectand repair the unit. DO NOT OPERATE THE UNIT IF INSTALLED ORFUNCTIONING IMPROPERLY.4. Check the fit and seal of the doors and ashpan door frequently. Forproper operation an airtight seal must be maintained around theseopenings. If the seal is not tight, inspect the gasket. If the gasket needsreplacement, contact your dealer. If the gasket is in good condition, checkthe closure latch screws; if these are loose, tighten with a screwdriver andretest the seal.5. Store wood in a cool, dry place, well away from any source of flame orheat. If stored outside, keep the wood covered to protect from rain orsnow. Keep paper, wood, rags and other easily ignited materials awayfrom the wood or pile wet wood on top of drywood.6. Any maintenance other than the items specifically covered in theseinstructions must be performed by a qualified manufacturer's representative.395823110a20Page 21Creosote Formation and Need for Removal.When wood is burned slowly, it produces tar and other organic vapors, which combine with expelled moisture to form creosote residue accumulate: on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney connector and chimney should be inspected at least oncevery two months during the heating season to determine if a creosote build-up has occurred. The chimney connector must be in good conditionand kept clean. If creosote has accumulated (1/8 "(3 mm) or more) it should be removed toreduce the risk of a chimney fire. Experienced chimney fire. Experienced chimney fire. It is extremely important to have a clear planon how to handle a chimney fire. Procedure to follow in case of a chimney fire. fire:A.Prepare to evacuate to ensure everyone's safety. Have a wellunderstood plan of action for evacuation. Have a fire extinguisher handy.D.After the chimney fire is out, the chimney must be cleaned and checked for stress and cracks before starting another fire. Alsocheck combustibles around the roof. Establish a routine for the fuel, wood burner and firing technique. Checkdaily for creosote build-up until experience shows how often you need toclean to be safe. Be aware that the hotter the fire, the less creosote build-up until experience shows how often you need toclean to be safe. Be aware that the hotter the fire, the less creosote build-up until experience shows how often you need toclean to be safe. mild weather eventhough monthly cleaning may be enough in the coldest months. Contactyour local municipal or provincial fire authority for information on how tohandle a chimney fire. 395823110a21Page 22Maintenance of the glassProperly operated, your glass door will not get coated with NEVER OPERATE YOUR STOVE WITH BROKEN GLASS.Replace the seals.Install the 4 screws. Do not over-tighten the screws. Bo not over-tighten the screws. When replacing glass always replace glass seals. Other maintenanceClean the unit, the flue outlet, and the chimney at the end of each heatingseason or more often if the use of the stove, or the fuel make it necessary. For cleaning purposes the baffle plates can be removed without any tools. This gives access to the cleaning flap of the smoke flue and it is evenpossible to reach the flue outlet. Summer shut downAshes shall be removed, and disposed of in a steel container with a tightlyfitting lid and moved outdoors immediately. Other waste shall not beplaced in this container. Remove all remaining ash and cinders from the unit, close all the stovedoors. If the room is damp, possibly place some absorbent crystals inside the stove and/or disconnect it completely from the chimney. 395823110a22Page 23REPLACEMENT PARTS- Models: Stanford 80 EPA & Stanford 140 EPA -Harmony III)order code: 4128710.08" / 256mm7.87" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 20 mm thickBottom Center Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 4128710.08" / 256mm7.87" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 4128710.08" / 256mm7.87" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 200 mmUpper Left Firebrick(Stanford 140 & Harmony III)order code: 41201.79" / 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25 mm thick)Upper Rear Firebrick(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony I)order code: 387445.51" / 140mmx 12.60" / 320 mm(.98" / 25 mm thick)Start-up Air Column Gasket(Stanford 80 & Harmony 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Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order code: 40715Side ViewBaffle Assembly, Stanford 140 & Harmony III)order 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III)order code: 41530Upper Air Deflector(Stanford 140 & Harmony III)order code: 41298Fire Poker(St 80, Harm I, St 140, S Harm III)order code: 20017Page 27REPLACEMENT PARTS- Models: Stanford 80 EPA & Stanford 140 EPA Air Control/Ash Pan Removal Tool(St 80, Harm II)order code: 39492Harmony II EPADraft Module (Air Intake Slide)(Stanford 140 & Harmony I) order code: 39492Harmony II EPA & Harmony III EPADraft Module (Air Intake Slide)(Stanford 140 & Harmony I) order code: 39492Harmony I EPA & Harmony II EPA & Harmony III EPADraft Module (Air Intake Slide)(Stanford 140 EPA Air Control/Ash Pan Removal Tool(St 80, Harm II) order code: 39492Harmony II EPA & Harmony III EPADraft Module (Air Intake Slide)(Stanford 140 EPA Air Control/Ash Pan Removal Tool(St 80, Harm II) order code: 39492Harmony II EPA & Harmony II EPA & Harmony II EPA & Harmony III EPADraft Module (Air Intake Slide)(Stanford 140 EPA Air Control/Ash Pan Removal Tool(St 80, Harm II) order code: 39492Harmony II EPA & Harmony II EPA 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Slide)(Stanford 140 EPA Air Control Ash Pan Removal Tool(St 80, Harm III) order code: 39492Harmony II EPA Air Control Ash Pan Removal Tool(St 80, Harm III) order code: 3949 Harmony III)order code: 41720Rear Firebrick Retainers Not ShownDraft Module (Air Intake Slide)(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony III)order code: 41852Secondary Air Tube Assembly(Stanford 80 & Harmony 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Air Column Assembly (\$431) Right Air Column Assembly (\$431) Left Air Column Assembly PARTS - Models: Stanford 80 EPA & Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41201 Upper Left Firebrick (Stanford 140 & Harmony III) order code: 41201 Upper Left Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom 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Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 & Harmony III) order code: 41287 Bottom Side Firebrick (Stanford 140 140 & Harmony III) order code: 41202 Lower Rear Firebrick (Stanford 140 & Harmony III) order code: 41204 4.6" / 117 mm 7.87" x 200 mm mm 532 / 52.912.36" / 314 mm 9.25" / 235 mm 2.87" / 73 mm mm 002 / "78.7 .79" / 20 mm thick 7.87" / 200 mm mm 532 / 265 mm mm 041 / "15.5 .79" / 20 mm thick 13.94" / 117 mm 7.87" x 200 mm mm 532 / 52.912.36" / 314 mm 9.25" / 235 mm 2.87" / 73 mm mm 002 / "78.7 .79" / 20 mm thick 7.87" / 200 mm mm 532 / 52.912.36" / 314 mm 9.25" / 235 mm 2.87" / 73 mm mm 002 / "78.7 .79" / 20 mm thick 7.87" / 200 mm thick 10.43" / 265 mm mm 041 / "15.5 .79" / 20 mm thick 13.94" / 314 mm 9.25" / 235 mm 2.87" / 73 mm mm 002 / "78.7 .79" / 20 mm thick 7.87" / 200 mm thick 7.87" / 200 mm thick 10.43" / 265 mm mm 041 / "15.5 .79" / 20 mm thick 13.94" / 314 mm 9.25" / 235 mm 2.87" / 73 mm mm 002 / "78.7 .79" / 20 mm thick 7.87" / 200 mm thick 7.87" / 354 mm mm 002 x "78.7.79" / 20 mm thick Page 4395823110a 21Creosote Formation and Need for Removal. When wood is burned slowly, 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 of a slow burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney connector and chimney should be inspected at least once every two months during the heating season to determine if a creosote has accumulated (1/8 "(3 mm) or more) it should be removed to reduce the risk of a chimney fire. Experienced chimney fire. Experienced chimney fire. It is extremely important to have a clear plan on how to handle a chimney fire. Procedure to follow in case of a chimney fire: A. Prepare to evacuate to ensure everyone's safety. Have a well-understood plan of action for evacuation. Have a fire extinguisher handy. D. After the chimney fire is out, the chimney must be cleaned and checked for stress and cracks before starting another fire. Also check combustibles around the chimney and the roof. Establish a routine for the fuel, wood burner and firing technique. Check daily for creosote build-up until experience shows how often you need to clean to be safe. Be aware that the hotter the fire, the less creosote is deposited. Weekly cleaning may be enough in the coldest monthly clea wood on a low setting, is certain to cause poor combustion efficiency resulting in tar and dirty glass. Always allow the stove to recover before closing for long burning, though it is probable that the glass door will become dirty. To keep the glass clean, we recommend you do not shut the primary air control completely but to leave it slightly open, depending on how the chimney draws, to achieve slow burning for a maximum of eight to ten hours (with dry, good quality wood such as oak...). With a good drawing chimney the air control will need to be closed further than with poor drawing chimneys. Disposal of Ashes Empty the ash pan regularly to prevent the ash from spilling over. Do not allow ash to build up and touch the under side of the grate, retain heat, and promote clean combustion. CAUTION: ASH PAN MAY BE HOT. USE HIGH TEMPERATURE GLOVES. To remove the ash from the stove, operate the oscillating grate using the handle provided for removal of the ash pan and remove. Place cover over ash pan. The tool provided for removal of the ash pan door, attach handle to ash pan and remove. 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 floor or on the ground, well away from all container until all cinders have thoroughly cooled. Page 6 395823110a 17OPERATING INSTRUCTIONS Air intake, controls Primary Air Control allows you to adjust the rate of burn. Sliding the lever to the left decreases air intake, resulting in higher flames and a cleaner burn. Adjustable Primary Air Control (All Models) Start-up Air Control Additional air for start-up can be supplied from the ignition booster air control, located on the back right corner of the Stanford 140 and Harmony III models. This can be especially helpful when your chimney is cold. Sliding the lever to the right increases air for start-up. Five minutes after lighting the fire, close the ignition booster air supply by sliding fully to the left. Do not operate the stove for long periods of time with the ignition Booster (Stanford 140 and Harmony III only) Page 7395823110a 15NOTES ON FIREWOOD Logs up to 18 inches in length (for Stanford 80 & Harmony I) or 22 inches in length (for Stanford 140 & Harmony III) allow for better stacking, filling and operation of your stove. Use dry wood which by definition must be wood which by definition must by definition must be wood which by definition must b GASOLINE, GASOLINE-TYPE LANTERN FUEL, 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. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER. KEEP ALL SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL. Heating the air in a closed building decreases the relative humidity of the air, which will dry wood and other combustible materials. This drying lowers the ignition temperature of these materials. This drying lowers the ignition temperature of these materials. structure is being heated for extended periods. What is the best wood for the fire? Some types of wood are easier to light than others. The best fire wood is always the driest wood. Using dry wood will minimize creosote build-up. What are the drawbacks of damp wood? Damp wood? Damp wood has far less heating power. This lowers the combustion temperature of the fire, and therefore the output. It is difficult to light, burns badly and gives off smoke. Above all the use of damp wood causes the formation of deposits (tarring and soot staining) in the chimney flue and on the glass door. Flue gas temperature The most important aspect of stove operation is maintaining a high combustion temperature. If the combustion of the fuel is at the correct temperature, most of the soot and tars (hydrocarbons) are burned. These hydrocarbons, when not burned, can be seen as tar and creosote deposits on the internal surfaces of the stove, glass and chimney surfaces. To assist in maintaining these temperatures, a surface mounted stove thermometer is recommended. High combustion temperatures are the secret to clean glass operation. When loading wood, add one or two logs at a time, depending on size. Loading the Page 8 395823110a 13Many building code inspectors follow these guidelines when approving installations. The methods approved by the NFPA are: • Cutting away all combustible material in the wall a sufficient distance from the single wall connector, to provide the required 12" (300 mm) clearance for the connector, to provide the required 12" (300 mm) clearance to combustible. • Placing a chimney connector pipe inside a ventilated thimble, this is then separated from combustibles by 6" (150 mm) of fiberglass insulating material. • Placing a chimney connector pipe inside a section of 9" (230 mm) diameter, solid-insulated factory built chimney, with two inches of air space between the chimney section and the combustibles. Chimney connection is a freestanding installation Chimney connector enters chimney above the fireplace An approved wall pass-through for the United States A. Chimney connector enters chimney above the fireplace 9 Zoom out Zoom in Previous page 1/27 Next page 395823110a 11 Page 10 395823110a 107. Check that all clearances are still within the allowable tolerances. 8. Secure the connector pipe to flue collar using three equally spaced sheet metal screws. DO NOT secure chimney connector to chimney with screws. DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE. 9. The unit must be connected to either: • a code-approved masonry chimney with a flue liner, or • a 6 inch diameter factory built chimney the connected to either: • a code-approved masonry chimney with a flue liner, or • a 6 inch diameter factory built chimney the connected to either: • a code-approved masonry chimney with a flue liner, or • a 6 inch diameter factory built chimney complying with the requirements for Type HT chimneys in the standard UL 103. Minimum Chimney Height American National Standards Institute ANSI/NFPA 211-92, draft 1-7 states that a chimney or vent shall be so designed and constructed to develop a flow sufficient to completely remove all flue and vent gases to the outside atmosphere. The venting system shall satisfy the draft requirements of the connected appliance in accordance with the manufactures instructions. The "3-foot, 2-foot, 10-foot rule" on chimney height states that a chimney must be: 1. at least 2 feet higher than any part of the roof within 10 feet, measured horizontally. 2'10'3' Page 11395823110a 12Freestanding Installations If the roof within 10 feet, measured horizontally. 2'10'3' Page 11395823110a 12Freestanding Installations If the roof within 10 feet, measured horizontally. 2'10'3' Page 11395823110a 12Freestanding Installations If the roof within 10 feet, measured horizontally. 2'10'3' Page 11395823110a 12Freestanding Installations If the roof within 10 feet, measured horizontally. 2'10'3' Page 11395823110a 12Freestanding Installations If the roof within 10 feet, measured horizontally. the chimney connector must pass through a combustible wall to reach the chimney, follow the recommendations in the Wall Pass-Through section that follows. The opening through the chimney wall to the flue (the "breach") must be lined with either a ceramic or metal cylinder, called a "thimble", which is securely cemented in place. Most chimney breeches incorporate thimbles, but the fit must be snug and the joint between the thimble and the wall must be cemented firmly (Fig. A) A special piece called the "thimble sheeve", slightly smaller in diameter than standard connectors and most thimbles, will facilitate the removal of the chimney connector system for inspection and cleaning. sleeves are available from your local dealer. To install a thimble sleeve, slide it into the breech until it is flush with the inner flue wall. Do not extend it into the actual flue passage, as it could interfere with the draft. The thimble sleeve should protrude 1-2" (25-50 mm) into the room. Use fire cement and thin gasketing to seal the sleeve in place in the thimble. Secure the chimney connector to the outer end of the sleeve with sheet metal screws. Above a Fireplace chimney (Fig. B) The liner of the fireplace chimney should extend at least to the point at which the chimney connector enters the chimney. Follow all the guidelines for installing a chimney connector into a freestanding masonry chimney, and pay special attention to these additional points: • Double check the connector clearance from the ceiling: 18" minimum. • The fireplace damper must be closed and sealed to prevent room air from being drawn up the flue, thereby reducing the draft. However, it must be possible to re-open the damper to inspect the chimney. Wall Pass-ThroughsWhenever possible, design your installation, check with your building inspector before you begin. Also check with the chimney connector manufacturer for any specific requirements. Accessories are available for use as wall pass-through. If using one of these, make sure it has been tested and listed for use as a wall pass-through combustible walls Page 12395823110a 14GUIDELINES FOR SAFE OPERATION Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies. Advise all adults and especially children when they are in the same room as the appliance and/or use a fire guard. It is imperative that the control compartments and circulating air passageways of the appliance be kept clean. CAUTION: • Hot while in operation. Do not touch. Keep children, clothing and furniture away. • All furnishings and other materials should be kept a considerable distance from the appliance. • Do not over-fire If any portion of unit or chimney connector starts to glow, you are over-firing. This unit is designed as a radiant room heater and should be used for no other purpose. Be sure to provide combustion air into the dwelling when using the appliance. A partially open window or outside air register in the vicinity of the unit would be acceptable for this purpose. Unattended Fires Many structure fires have resulted when a slow burning fire has been left unattended for an extended period of time. These fires normally occur because combustible materials close to an appliance become heated to the ignition point by an over-fired appliance which the operator thought was safely "throttled down." Fire intensity is a function of several factors. One of these factors is draft. Normally, increasing draft increases fire intensity. Conversely, increasing the fire intensity will increase draft. Draft can also be affected by external factors such as wind strength and direction, outside temperature, airflow in or out of the structure, and so forth. If one of these factors changes, the draft of a low-burning appliance may increase. This increased draft may cause dangerously high temperatures to develop, possibly causing failure of the unit or flue, or ignition of nearby combustibles. Closing down the combustibles. be left unattended Page 13 395823110a 16 appliance full of damp wood on a low fire is certain to cause poor combustion efficiency, resulting in tar and dirty glass. It is recommended that you heat your stove to at least 400°F before reducing the air controls. This procedure should always be carried out after reloading. Storage time for wood Wood supplied in ready-cut lengths stored immediately under a ventilated shelter dries quicker than wood stocked in high piles. Quarters (split wood) dry quicker than round logs left in the open for more than a year end up rotten. The drying time for the fire wood must be at least 18 months to 2 years. This period can be shortened (12 to 15 months) if the wood is cut to the right length and immediately stored under a ventilated shelter. Page 14395823710a 18Starting a Fire 1. Fully open the primary air control. 2. Place a small amount of paper in the firebox and cover with a few pieces of kindling. 3. Light the paper in the stove. 4. Once the kindling is burning quickly, add several pieces of wood. Be careful not to smother the fire. For best results, use smaller pieces of wood to get the stove temperature high before loading larger wood for sustained burns. 5. Load logs evenly across the base being cautious not to place wood in front of the rear edge of the log guard. 6. Close the loading door. 7. With the primary air control open to its maximum, open the stove door a fraction and burn for 5 minutes. Then close the stove door. Never leave the stove door. Never leave the stove door a fraction and burn for 5 minutes. smoke blowing into the room follow these recommendations: 1. Open the primary air control to allow fire to recover for a few minutes. 2. Close the primary air control and open the loading door. 3. Rake the embers towards the front of stove. 4. Feed the logs to the embers. Try to use side loading door as it will allow for cleaner operation. Load logs evenly across the base being cautious not to place wood in front of the rear edge of the log guard. 5. Close the stove door. Never door. 6. Open the stove door. 6. Open the stove door. 8. Open the stove door a fraction and burn for 5 minutes. Then close the stove door. 8. Open the stove door. 8. leave the stove unattended when the door is open. 7. Adjust the primary air control depending on the temperature of the stove required. - In order to maintain an attractively burning fire, logs should be up to 18" long (Stanford 80 and Harmony II) or 22" long (Stanford 80 and Harmony II) or 22" long (Stanford 80 and Harmony II) and well seasoned. - High combustion temperatures are the secret to clean glass operation. When loading wood add one or two logs at a time, depending on size. Page 15395823110a 20MAINTENANCE WARNING: DO NOT CLEAN STOVE WHILE HOT. 1. Always keep the area around the unit clean and clear of furniture and other objects. Keep all furniture and drapery a minimum 36 inches (914 mm) from the heater. 2. Clean the heater surface with a dry or slightly damp cloth. In case of condensation, clean the affected areas before they dry. Clean the affected areas before they dry. Clean the door glass used is a ceramic type, which can only be broken by impact or misuse. Do not clean with materials that may scratch or otherwise damage the glass. Scratches on the glass can develop into cracks or break. Inspect the glass regularly. If you detect a crack, extinguish the fire and see replacement of glass on page 16. 3. Inspect the entire unit frequently for proper operation, fit and soundness of parts. If any malfunctioning, cracked, broken, or loose parts or other problems are noted, contact your dealer or qualified serviceman to inspect and repair the unit. DO NOT OPERATE THE UNIT IF INSTALLED OR FUNCTIONING IMPROPERLY. 4. Check the fit and seal of the doors and ashpan door frequently. For proper operation an airtight seal must be maintained around these openings. If the seal is not tight, inspect the gasket. If the gasket needs replacement, contact your dealer. If the gasket is in good condition, check the closure latch screws; if these are loose, tighten with a screwdriver and retest the seal. 5. Store wood in a cool, dry place, well away from any source of flame or heat. If stored outside, keep the wood covered to protect from rain or snow. Keep paper, wood, rags and other easily ignited materials away from the wood or pile wet wood. 6. Any maintenance other than the items specifically covered in these instructions must be performed by a qualified manufacturer's representative. Page 16395823110a 22Maintenance of the glass Properly operated, your glass door will not get coated with thick tar like conventional stoves. If this does occur you may have to resort to using a glass cleaner. However by using dry wood, much of the tar on the glass will burn clean, when the appliance is run at high temperature. Clean the ceramic glass when cold using commercial products sold for this purpose, or warm water with a drop of vinegar. CAUTION: NEVER OPERATE YOUR STOVE WITH BROKEN GLASS. Replace the seals. 4. Install the 4 screws. Do not over-tighten the screws. When replacing glass always replace glass seals. Other maintenance Clean the unit, the flue outlet, and the chimney at the end of each heating season or more often if the use of the stove, or the fuel make it necessary. For cleaning purposes the baffle plates can be removed without any tools. This gives access to the cleaning flap of the smoke flue and it is even possible to reach the flue outlet. Summer shut down Ashes shall be removed, and disposed of in a steel container. Remove all remaining ash and cinders from the unit, close all the stove doors. If the room is possibly place some absorbent crystals inside the stove and/or disconnect it completely from the chimney. Page 17 REPLACEMENT PARTS - Models: Stanford 140 & Harmony III EPA damp III) order code: 41205 Left Firebrick (Stanford 80 & Harmony I) order code: 38742 Lower Rear Firebrick (Stanford 80 & Harmony I) order code: 38743 Right Firebrick (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38743 Right Firebrick (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" / 25mm thick) Baffle Firebrick (above tubes on ceiling) (Stanford 80 & Harmony I) order code: 38741 8.47" / 215 mm x 5.12" / 130mm (.98" 38745 Upper Rear Firebrick (Stanford 80 & Harmony I) Fuel Grate Frame (Stanford 80 & Harmony II) order code: 4073910.43" / 265 mm mm 021 / "27.4.79"/20 mm thick13.93"/354 mm mm 002/"78.7.79"/20 mm thick)5.51"/140 mmx 12.40"/315 mm (.98"/25 mm thick)5.51"/315 PARTS - Models: Stanford 80 EPA & Stanford 140 EPA - Harmony II EPALeft Air Column Assembly (Stanford 140 & Harmony III) order code: 40706 Right Air Column Assembly (Stanford 140 & Harmony III) order code: 40715Upper Air Deflector Ashpan(St 80, Harm I, St140, Harm III) order code: 41526 Baffle Assembly, Ceramic Fiber Brick (above secondary air tubes) (Stanford 140 & Harmony II) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony II) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony II) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet Collar (Stanford 140 & Harmony III) order code: 39443Flue Outlet C View Top View Upper Air Deflector (Stanford 140 & Harmony III) order code: 41298 (Stanford 80 & Harmony I) oreder code: 41530Page 19REPLACEMENT PARTS - Models: Stanford 140 EPA & Stanford 140 EPA & Harmony III EPA & Barmony III Harmony III) order code: 40700Air Control/Ash Pan Removal Tool (St 80, Harm I, St140, Harm III) order code: 20034 Draft Module (Air Intake Slide) Rear Firebrick Retainers (Stanford 140 & Harmony III) order code: 41852 Side Retainers Not Shown Stanford 80 & Harmony I Firebrick Placement Diagram Baffle Firebrick, 38745Upper Rear Firebrick, 38744Lower LeftFirebrick 41202Lower LeftFirebrick 41201BottomSideFirebrick41198BottomSideFirebrick41198Bottom CenterFirebrick, 41287Lower RightFirebrick, 41203BACK WALLEFT WALL RIGHT WALLFLOORRIGHT WAL Harmony I) order code: 39492(Stanford 140 & Harmony III) order code: 41720 (Stanford 80 & Harmony I) order code: 33880

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