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TARA Direct Vent Freestanding Gas Stove

Owners & Installation Manual

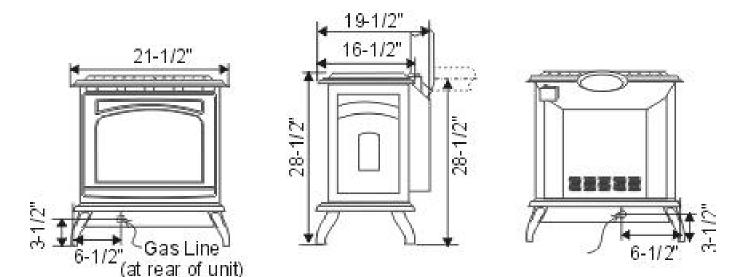


MODELS: T25-NG Natural Gas T25-LP Propane

WARNING: If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.	 Do not try to light any appliance Do not touch any electrical switch:
FOR YOUR SAFETY Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.	 do not use any phone in your building. Immediately call your gas supplier from a neighbour's phone. Follow
Installation and service must be performed by a qualified installer, service agency or the gas supplier.	 the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.
Installer: Please complete the def and leave this manual with Homeowner: Please keep these instru	the homeowner.

To the New Owner:

Congratulations! You are the owner of a state-of-the-art Waterford Direct Vent Freestanding Gas Stove by Waterford Irish Stoves. The Waterford Gas Series of hand crafted appliances has been designed to provide you with all the warmth and charm of a woodstove, at the flick of a switch. The TARA has been approved by Warnock Hersey for both safety and efficiency. As it also bears our own mark, it promises to provide you with economy, comfort and security for many trouble free years to follow. Please take a moment now to acquaint yourself with these instructions and the many features of your TARA Direct Vent Freestanding Gas Stove.



Tara Dimensions

Minor imperfections such as blisters, seeds or thin flaws visible in this product are not defects. These are inherent in the hand-crafted enamel process and cannot be avoided, and they substantiate that this is genuine porcelain enamel.



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This is a copy of the label that accompanies each TARA Direct Vent Freestanding Gas Stove. We have printed a copy of the contents here for your review. The safety label is located on the inside of the drop down pedestal door.

NOTE: Waterford units are constantly being improved. Check the label on the unit and if there is a difference, the label on the unit is the correct one.

Copy of Safety Label for TARA T25 Gas Stove

			DU	IPLICATE SER	ial no.	217	
6		RED DIRECT VENT ROOM H	EATER	WATERI	TORD NOT	REMOVE OR COVE	R THIS LABEL TE ÉTIQUETT
2	# 105	N/CGA 2.17-M91, -2003/CSA 2.335-2003	- Second	6	-MIC	217	
Repo	ort No. J98000895-231 (N	Aar. 1998) 476-1751-00 (Feb. 2	2000)			Serial No./ N	o de serie
	Model: Tara Minimum inlet pressure Manifold pressure Orifice size Maximum Output Altitude Maximum Input Minimum Input	T25-NG NATURAL GAS 5" WC/C.E. (1.24 kPa) 3.8" WC/C.E. (0.94 kPa) #41 DMS 18,875 Btu/h (5.53 Kw/h) 0-4500 ft/pi (0-1370m) 25,000 Btu/h (7.3 Kw/h) 15,000 Btu/h (4.39 Kw/h)	PRO 12.0" WC/C 11.0" WC/C #53 DMS 19,250 Btu/f 0-4500 ft/pi 25,000 Btu/f	E. (2.70 kPs) h (5.64 Kw/h) (0-1370m)	Combo Minimum D Unit to Si Unit Com Unit to Be Meximum	er to walls sckwall Alcove Depth	ment mbustibles 6"/150mm 2"/ 50mm 3"/ 75mm
Model/Modele:	the Simpson DuraVent V installation instructions. Minimum Horizontal Ven	t Gas Stove is approved for us fenting Components listed in th t Length:6 in. with Riser Vent (Part #:640-944) ht Length: 6 ft. (with 2 ft. Vert 12 ft. (with 3 ft. Ver ons.	e ver ins ins ce sys cal) or du tical) ins	nting system in tallation instruc- tructions for pr t apparell doit (steme d'évacus manufaturier, t	accordanio ctions. If rer oper reasse Mre correct stion, en ac Si désconne	erly connected e with manufac- noved, follow in ambiy and/or re- ement raccorde cord avec les in acté suivre les ur réinstaller et	turer's nstallation iscaling. 6 au un nstructions
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servic injury provic suppli AVEF antroi domn corport ourni suppli	ce or maintenance can can , or loss of life. Refer to ti ded with this appliance. In med by qualified installed ier. RTISSEMENT: Installation tion et dépannage non app nages matériels, des in rels. Veuillez vous référ i avec cet appareil. Pour ti émentaire, veuillez con	ation, adjustment, alteration use property damage, persona he owner's information manua staliation and service must be ar, service agency or the gas on, modification de réglage propriés risquent de causer des accidents cu des blessures rer au manuel du propriétaire cute assistence cu information suiter un installateur ou un teés ou votre compagnigazière	Ce radiate codes loc norme CA Due to hig furnituri vapors ew Acause d	any; if not, follow aux. S'in "exist aux. S'in "exist aux. S'in "exist aux. S'in "exist aux. S'in exist N 1 - B149 en vi h surface tomp e, gasclin e vey.	w the curren allé conform e aucun co- gueur. enatures, ka , or liqu re élevée de	in accordance nt ANSI Z223.1 nement aux exi de local, se cor aep keep childn uida with fi es parois, tenir é s.	t or CAN 1- gences des former è la en, clothing ammable
Mfg.) 7240. Part n) home installations must 4 10. 45000 fan or blower aas	tured) homes after first sale of h adhere to Title 24 CFR, part 3 sembly may be used. entilateur ou soufficur peut être	280, or CSA	FPI Fireplace Delta, BC, C	a Producta anada	olta 60 Hz 1. International Lt que au Canada	d.,

For the State of Massachusetts, installation and repair must be done by a plumber or gasfitter licensed in the Commonwealth of Massachusetts.

For the State of Massachusetts, flexible connectors shall not exceed 36 inches in length.

For the State of Massachusetts, the appliances individual manual shut-off must be a t-handle type valve.

IMPORTANT: SAVE THESE INSTRUCTIONS

The TARA Direct Vent Freestanding Gas Stove must be installed in accordance with these instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to starting the installation.

- Note: Failure to follow the instructions could cause a malfunction of the heater which could result in death, serious bodily injury, and/or property damage. Failure to follow these instructions may also void your fire insurance and/or warranty.
- Note: These instructions take precedence over Simpson Dura-Vent instructions.

SPECIFICATIONS

Fuels: The TARA is factory equipped for use with natural gas. A Propane Conversion Kit (#290-969) is available to convert the TARA for use with liquefied petroleum gases (propane).

Electrical: 120V A.C. system.

- Circulation Fan: Variable speed, 125/75 (Optional)
- Log Sets: Ceramic fibre, 5 per set.
- Vent System: Coaxial (6-5/8" outer / 4" inner liner) rigid flue and termination cap.

The efficiency rating of the appliance is a product thermal efficiency rating determined under continuous operating conditions and was determined independent of any installed system.

INFORMATION FOR MOBILE/ MANUFACTURED HOMES AFTER FIRST SALE

This Waterford product has been tested and listed by Warnock Hersey as a Direct Vent Wall Furnace to the following standards: UL 307B-1995, CAN/CGA-2.17-M91 and ANSI Z21.88b-2003/CSA 2.33b-2003.

This Direct Vent System Appliance must be installed in accordance with the manufacturer's installation instructions and the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or the current Standard of Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities ANSI/NFPA 501A, and with CAN/CSA Z240-MH Mobile Home Standard in Canada.

This appliance installation must comply with the manufacturer's installation instructions and local codes, if any. In the absence of local codes follow the current National Fuel Gas Code, ANSI Z223.1 and the current National Electrical Code ANSI/NFPA 70 in the U.S.A., and the current CAN/CGA B149 Gas Installation Code and the current Canadian Electrical Code CSA C22.1 in Canada.

This Waterford Mobile/Manufactured Home Listed appliance comes factory equipped with a means to secure the unit.

This Waterford Mobile/Manufactured Home listed appliance comes equipped with a dedicated #8 ground lug to which an 18 gauge copper wire from the steel chassis ground must be attached.

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

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

BEFORE YOU START

Safe installation and operation of this appliance requires common sense, however, we are required by the Canadian Safety Standards and ANSI Standards to make you aware of the following:

INSTALLATION AND REPAIRS SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. THIS APPLI-ANCE SHOULD BE INSTALLED, REPAIRED, INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A QUALIFIED SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, ETC. IT IS IMPERATIVE THAT THE CONTROL COMPARTMENT, BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE APPLIANCE BE KEPT CLEAN.

DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LO-CATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

WARNING: FAILURE TO INSTALL THIS APPLIANCE CORRECTLY WILL VOID YOUR WARRANTY AND MAY CAUSE A SERIOUS HOUSE FIRE.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERA-TURES, ESPECIALLY THE FIRE-PLACE GLASS, AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

CLOTHING OR OTHER FLAMMA-BLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLI-ANCE.

- Provide adequate clearances for servicing, proper operation and around the air openings into the combustion chamber.
- 2) The appliance must be installed on a flat, solid, continuous surface (e.g. wood, metal, concrete). This may be the floor, or it can be raised up on a platform to enhance its visual impact. The appliance may be installed on carpeting, tile, wood flooring or other combustible material. The TARA Direct Vent Freestanding Gas Stove can be installed in a wide variety of ways and will fit nearly any room layout. It may be installed in a recessed position, framed out into the room, or across a corner.
- 3) The TARA Direct Vent Freestanding Gas Stove is approved for alcove installations, which meet the clearances listed on page 6. This unit is approved for manufactured home installations, see page 6 and pages 9 to 17 for the required vent arrangements. If installed into a manufactured home the unit must be bolted down to the floor.
- 4) This appliance is Listed for bedroom installations when used with a Listed Millivolt

Thermostat. Some areas may have further requirements, check local codes before installation.

- This appliance is Listed for Alcove installations, maintain minimum Alcove clearances as follows, minimum width of 33-1/2" (851mm), a maximum depth of 24" (610mm), and minimum ceiling height of 41-1/2" (1054mm).
- 6) We recommend that you plan your installation on paper using exact measurements for clearances and floor protection before actually installing this appliance. Have a qualified building inspector review your plans before installation.

MANUFACTURED MOBILE HOME ADDITIONAL REQUIREMENTS

- 1) Ensure that structural members are not cut or weakened during installation.
- 2) Ensure proper grounding using the #8 ground lug provided.
- **3)** Appliance must be anchored to the floor with the supplied anchoring methods.

GENERAL SAFETY INFORMATION

- 1) The appliance installation must conform with local Canadian Electrical Code.
- 2) The appliance when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes with the current National Electrical Code, ANSI/ NFPA 70 or CSA C22.1 Canadian Electrical Code.
- 3) The appliance should be inspected for shipping damage before use and serviced annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, and circulating air passageways of the appliance be kept clean and free from excessive lint from carpeting.
- 4) See general construction and assembly instructions. The appliance and vent should be enclosed when installed in or passing through a living area, where children may come in contact with it.
- 5) This appliance must be connected to the

specified vent and termination cap to the outside of the building envelope. Never vent to another room or inside a building. Make sure that the vent is fitted as per the instructions starting on page 9.

- 6) Inspect the venting system annually for blockage and any signs of deterioration.
- 7) Venting terminals shall not be recessed into a wall or siding.
- 8) Any safety glass removed for servicing must be replaced prior to operating the appliance.
- 9) To prevent injury, do not allow anyone who is unfamiliar with the operation to use the fireplace.

Emissions from burning wood or gas could contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

INSTALLATION CHECKLIST

- Check Clearances to Combustibles (page 6), location of unit (page 7) and venting requirements (pages 9-20).
- 2) a) Carefully unpack the unit from the packaging.

EXTREME CARE NEEDS TO BE TAKEN WHEN HANDLING POR-CELAIN ENAMEL PARTS OR CERAMIC LOGS TO AVOID DAMAGE. DAMAGE TO THESE PARTS IS NOT COVERED UN-DER WARRANTY.

- b) Use a 7/16" wrench to remove the two lag bolts used to secure the stove to the pallet.
- c) Locate the 4 leg levelling bolts supplied with the stove. Fit these bolts to the underside of the legs as shown. These levelling bolts can be used to level the stove on an uneven surface.



Install Optional Fan, see page 7.
 Install venting: Check all venting require-

ments, pages 9 to 20. Minimum Horizontal Vent Kit, page 11, Vertical Termination Co-Linear Flex System, page 13, DV Stove Horizontal Vent Kit (page 14), and the Dura-Vent Termination Kits, page 15. Converting a Class-A Metal Chimney or Masonry Chimney to a Direct Vent System, page 21.

- 5) Make gas connections, page 24. Test the pilot. Must be as per diagram, page 26.
- 6) Test Gas Pressure, page 24.
- 7) Install logs where indicated on page 27.
- 8) Install Optional Side Shelves, page 27.
- 9) Install optional Remote Control, or Wall Thermostat, pages 27 and 28.

10) Final check, page 28.

Before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly and **operation fully explained to customer**.

This includes:

- Clocking the appliance to ensure the correct firing rate (rate noted on label), first burning the appliance for 15 minutes.
- 2) If required, adjusting the primary air to ensure that the flame does not carbon. First allow the unit to burn for 15-20 min. to stabilize.

CAUTION: Any alteration to the product that causes sooting or carboning that results in damage is not the responsibility of the manufacturer and is not a warranty issue.

CLEARANCES TO COMBUSTIBLES

The clearances listed are MINIMUM distances. Measure the clearance to both the appliance and the chimney connector. The farthest distance is correct if the two clearances do not coincide.

For example, if the appliance is set as indicated in one of the figures but the connector is too close, move the stove until the correct clearance to the connector is obtained.

This appliance may be installed only with the clearances as shown in the situations pictured. Do not combine clearances from one type of installation with another in order to achieve closer clearances.

This unit can be installed on a solid combustible surface like a wood floor. This unit can also be installed directly on carpeting or vinyl.

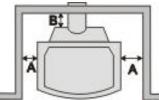
Use the minimum clearances shown in the diagrams below:

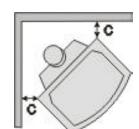
TARA Clearances

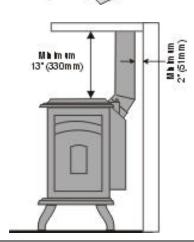
Side Wall to Unit* Back Wall to Unit	В	3"	/ 150 mm / 75 mm
Unit Corner to Wall Unit to Alcove Ceiling	C	_	/ 50 mm / 330 mm
Max. Alcove Depth		-	/ 610 mm

*If installing the side shelves, which are 6" wide, additional space is required.

Minimum ceiling height is 47"/1294mm from floor.



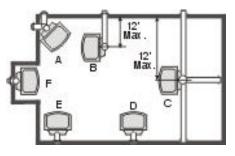




LOCATING YOUR GAS STOVE

When selecting a location for your stove, ensure that the clearances listed above are met as well as ensuring that there is adequate accessibility for servicing and proper operation.

For Vent Termination requirements, see page 10.



- A) Cross Corner
- B) Room Divider
- C) Island
- D) Flat on Wall
- E) Flat on Wall Corner
- F) Flush with Wall/Alcove

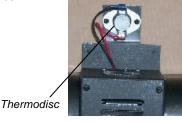
OPTIONAL FAN INSTALLATION

for units starting with serial # 11106 to 13347 / 217000001 to present.

Fan Kit Contains:

Qty. Description

- 1 Fan Assembly c/w green wire attached
- 1 Thermodisc
- 1 power cord
- 2 2-1/4" x 20 hex nut
- 1) Remove the thermodisc from the bracket on the fan assembly, do not disconnect the wires.



2) Remove the rear access panel on the back of the stove by removing the 6 screws. Take care not to cut wires when lowering the panel.

Rear Access Panel secured with 6 screws (3 on each side)

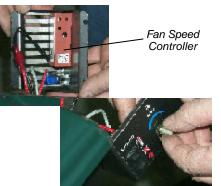


 Remove the Top Control Panel Assembly by removing the three screws.

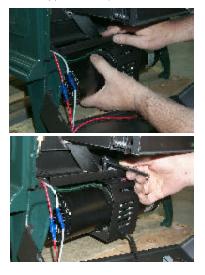


Top Control Panel Assembly

- 4) Remove the nylon hole plug from the control panel.
- 5) Install the fan speed controller onto the control panel and secure with nut and washer. Connect the red and black wires from the wire harness to speed controller. NOTE: Speed control wires must be in the down position when control panel is in place.



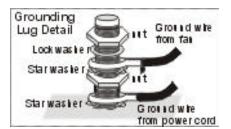
- 6) Push black knob onto speed control.
- 7) Re-attach control panel with 3 screws, reversing step 2.
- 8) Mount the blower assembly in position under the base of the stove and secure with the 2 supplied bolts (2-1/4" #20 hex head)

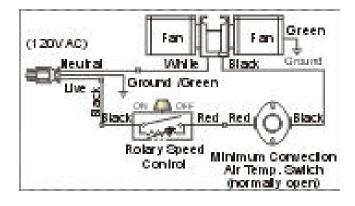


- 9) Connect the red wire from the thermodisc to the red wire of the speed control wire harness.
- **10)** Connect the live black wire from power cord to the black wire of the speed control wire harness.

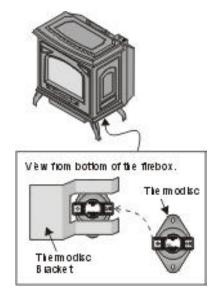


NOTE: Pull excess wire next to fan to avoid excessive heat from the firebox.





11) Slide the thermodisc into the bracket clip on the underside of the firebox.



- **12)** Ensure all wires are pulled away from firebox to avoid excessive heat and secure with stick-on wire clip.
- 13) Re-attach rear access panel with 6 screws, reversing step 7.



NOTE: When power cord is plugged in, speed control is in the ON position and stove is burning, allow 10 - 15 minutes for the thermodisc (temperature switch) to activate and turn on the Fan automatically.

WARNING: Electrical Grounding Instructions

This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

VENTING INTRODUCTION

The following vent systems in combination with the Tara Direct Vent Freestanding Gas Stove, have been tested and listed as direct vent heater systems by Warnock Hersey:

- 1) The Minimum Horizontal Termination with the DV Stove Horizontal Riser Vent Kit (Part# 640-944)
- 2) Vertical Termination using Co-Linear Flex System
- 3) The DV Stove Horizontal Vent Kit
- 4) The Simpson Dura-Vent Direct Vent System Model DV-GS venting systems

The Tara uses the "balanced flue" technology Co-Axial system. The inner liner vents products of combustion to the outside while the outer pipe draws outside combustion air into the combustion chamber thereby eliminating the need to use heated room air for combustion and losing warm room air up the chimney.

Note: These flue pipes must not be connected to any other appliance.

The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas burning appliance. Each direct vent gas appliance must use it's own separate vent system. Common vent systems are prohibited.

IMPORTANT

Read all instructions carefully before starting the installation. Failure to follow these instructions may create a fire or other safety hazard, and will void the warranty. Be sure to check the venting and clearance to combustible requirements. Consult your local building codes before beginning installation.

The location of the termination cap must conform to the requirements in the Exterior Vent Terminal Locations diagram on page 10.

INSTALLATION PRECAUTIONS

These venting systems are engineered products that have been designed and tested for use with the Tara. The warranty will be voided and serious fire, health or other safety hazards may result from any of the following actions:

- 1) Installation of any damaged Direct Vent component
- 2) Unauthorized modification of the Direct Vent System
- Installation of any component part not manufactured or approved by Simpson Dura-Vent or Fireplace Products International Ltd.
- Installation other than as instructed by Simpson Dura-Vent and Fireplace Products International Ltd.

Warning: Always maintain required clearances (air spaces) to nearby combustibles to prevent a fire hazard. Do not fill air spaces with insulation.

Be sure to check the vent termination clearance requirements from decks, windows, soffits, gas regulators, air supply inlets and public walkways as specified in the Exterior Vent Terminal Locations on page 9 and in your local building codes.

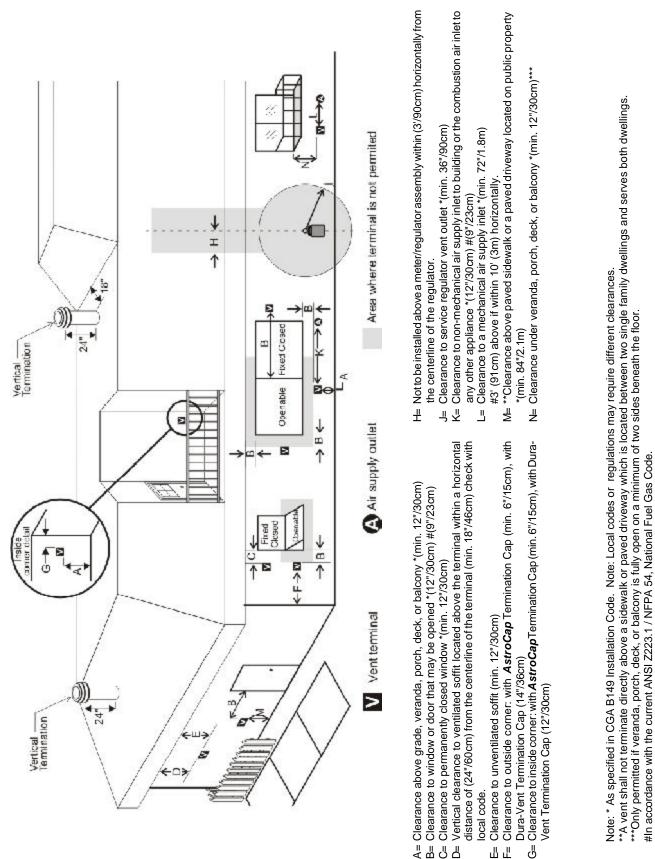
The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gasburning appliance. Each direct vent gas appliance must use it's own separate vent system. Common vent systems are prohibited.

SAFETY PRECAUTIONS FOR THE INSTALLER

- 1) Wear gloves and safety glasses for protection.
- 2) Exercise extreme caution when using ladders or on roof tops.
- 3) Be aware of electrical wiring locations in walls and ceilings.

COMBUSTION AND VENTILATION AIR

The combustion air from this appliance is drawn from outside the building through the outer flue. Extra provision for combustion air inside the room is not required.



EXTERIOR VENT TERMINAL LOCATIONS

RESIDENTIAL AND MANUFACTURED HOMES / MOBILE HOMES MINIUMUM HORIZONTAL TERMINATION INSTALLATIONS

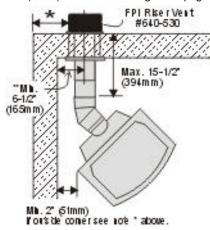
Planning Your venting Installation

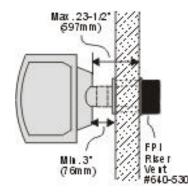
See page 9 for Exterior Vent Termination requirements. The T25 is approved for a minimum horizontal termination with the Regency Riser Vent Kit. See the diagram for minimum and maximum pipe lengths.

When planning your installation, it will be necessary to select the proper length of vent pipe for your particular requirements. Determine the minimum clearance to combustibles from the rear of the unit to the wall. It is also important to note the wall thickness. Before cutting the vent hole through the wall ensure that ALL vent and termination clearances (see page 10) will be met.

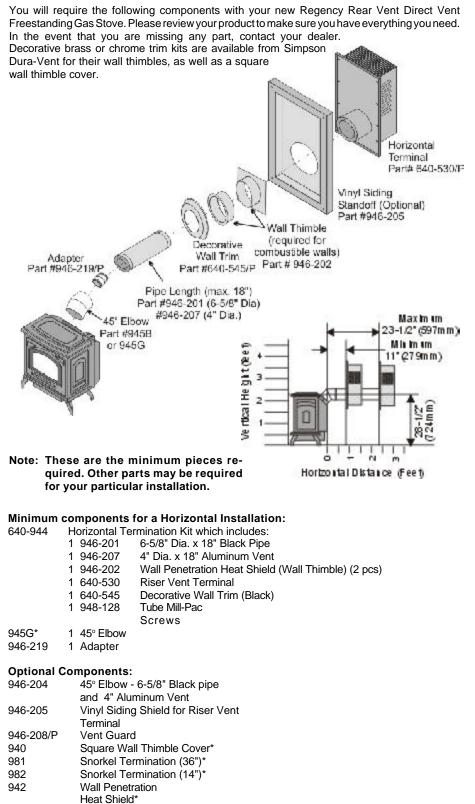
The venting arrangements shown on the diagram, have a minimum of 75% (flue loss) efficiency with Fan Off, as required for manufactured homes. (Actual efficiency may be as high as 85%.)

*If this is an outside corner, the minimum distance between the vent and the outside corner is 6" (15cm). See "F" on the diagram on page 10.





NOTE: Ensure compliance with the outside vent terminal location before cutting hole as both dimensions must be met.



* Simpson Dura-Vent components

HORIZONTAL INSTALLATIONS

- 1) Set the unit in its desired location. Check to determine if wall studs are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the unit.
- 2) Assemble the desired combination of pipe and elbow to the appliance adapter with pipe seams oriented down. Offset the pipe seams as double seams in one place will cause the outer pipe to take an oval shape. Kit comes complete with 18" of straight vent -6-5/8" dia. black outer pipe and 4" dia. inner vent.
- 3) With the pipe attached to the stove, slide the stove into its correct location, and mark the wall for a 9-1/2" (inside dimensions) round hole. The center of the round hole should line up with the centerline of the horizontal pipe, as shown in diagram 1. Cut and frame the 9-1/2 round hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of noncombustible material, i.e. masonry block or concrete, a 7" diameter hole is acceptable.

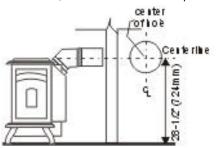


Diagram 1

Note:

- a) The horizontal run of vent should have a 1/ 4 inch rise for every 1 foot of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.
- b) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be blocked or obstructed. For External Vent Terminal Locations, see diagram on page 9.

c) Snorkel Terminations:

For installations requiring a vertical rise on the exterior of the building, 14-inch and 36inch tall Snorkel Terminations as shown in Dia. 2 are available, as well as the standard Riser Vent. Follow the same installation procedures as used for standard Horizontal Termination. NEVER install the snorkel upside down.

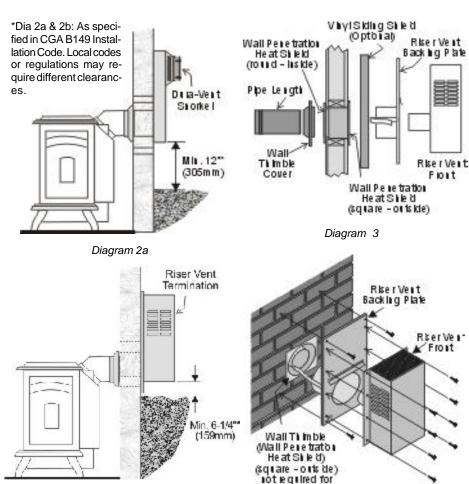


Diagram 2b

NOTE: For Snorkel terminations in ABOVE grade installations, follow national or local code requirements.

Below Grade Snorkel Installation If the Snorkel Termination must be installed below grade, i.e. basement application, proper drainage must be provided to prevent water from entering the Snorkel Termination. Refer to Dura-Vent Installation instructions for details.. Do not attempt to enclose the Snorkel within the wall, or any other type of enclosure.

- 4) Install wall penetration heat shield in the center of the 9-1/2" round hole and attach with wood screws. The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings. Dia. 3.
- If installing termination on a siding covered 5) wall, a vinyl siding standoff or furring strips must be used to ensure that the termination is not recessed into the siding. Dia. 3.
- Take the Riser Vent terminal and separate 6) the Backing Plate from the Riser Vent Front by removing 8 screws as shown in diagram 4.

Diagram 4

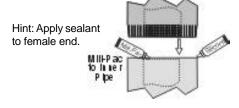
ioi-combistibe walk

7) Install the Backing Plate into the wall penetration heat shield and attach using 4 screws. Dia. 4.

Foit

Front

- 8) Connect all pipe sections to unit and install into wall:
- a) Measure pipe length required and cut to length. Hint: use the cut end of the 6-5/8" dia. outer pipe at the vent terminal end.
- b) Push the pipe sections completely together, the minimum pipe overlap is 1-1/4". Secure all outer pipe joints by using at least two screws. Locate the screws at the bottom of the pipe so that the screw heads are hidden on the final installation. Apply sealant "Mill-Pac" to inner pipe and high temp silicone sealant or "Mill-Pac" to outer pipe on every joint.



- c) Before connecting the vent pipe to the vent termination, slide the black decorative wall thimble cover over the vent pipe, then slide the Wall Penetration Heat Shield (Part # 946-202) over the vent pipe. Dia. 3.
- d) Slide the appliance and vent assembly towards the wall carefully inserting the vent pipe into the riser vent terminal assembly. It is important that the vent pipe extends into the Riser Vent Backing Plate a sufficient distance so as to result in a minimum pipe overlap of 1-1/4 inches. Secure the connection between the vent pipe and the vent cap by attaching the two sheet metal strips extending from the Riser Vent Backing Plate into the outer wall of the vent pipe. Use two aluminum screws provided to connect the strips to the pipe section. Bend any remaining portion of the sheet metal strip back towards the vent cap and cut off any excess, it will be concealed by the decorative wall thimble cover. See diagram 5.

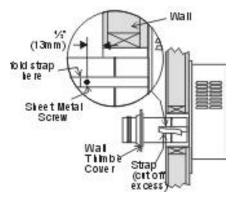
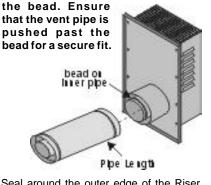


Diagram 5

- Slide the decorative wall thimble up to the wall surface being careful not to scratch the paint. See diagram 5.
- Back outside: Apply sealant to the 4" inner flue and slide the Riser Vent Front into the Backing Plate and fasten with 8 screws.

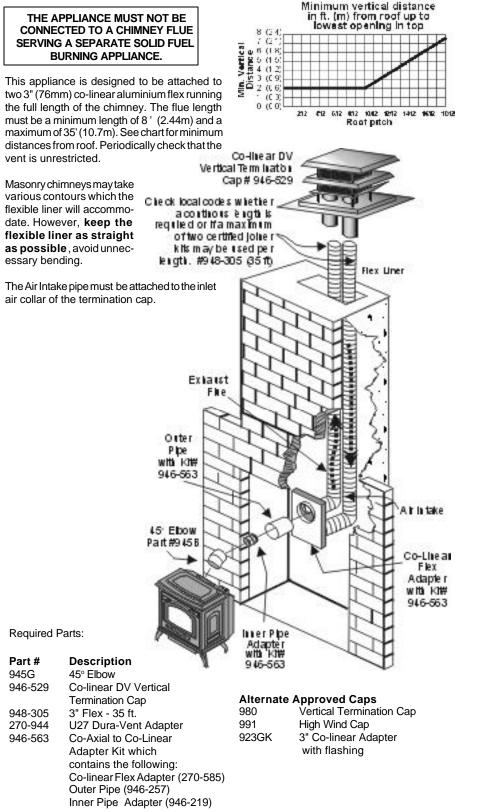
IMPORTANT:

When connecting the pipe to the Riser Vent, apply Mill-Pac to the inner pipe on the Riser Vent Terminal, around



10) Seal around the outer edge of the Riser Vent Backing Plate.

VERTICAL TERMINATION WITH CO-LINEAR FLEX SYSTEM



DV STOVE HORIZONTAL VENT KIT

DV Stove Horizontal Vent Kit (2 ft. Part # 946-116 or 4 ft. Part # 946-216) includes all the parts needed to install the U29-2 or U45-3 with minimum horizontal and vertical vent dimensions. For installations that require longer vertical and/or horizontal vents use the Dura-Vent system as shown on page 18.

Wall Thimble (only required in Canada)

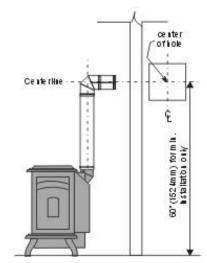


Thimble **Qty. Description** Cover Trim 1 Rigid Pipe Section (Kit # 946-116: 2 ft. (1.2m) length, 1) Collar Kit # 946-216: 4 ft. (1.2m) length), 6-1/2" (165mm) inside diameter (Part# 946-523/P) 2) 1 Flex Liner, compressed aluminium 2 ply liner, 4" (102mm) inside diameter 4" ID Liner 3) 4 spring spacers Adjustable Pipe Length 13-1/2" - 24". 4) 1 90 deg. Elbow 2 pieces **5**) 1 Adjustable pipe section 13-1/2" to 24" (343mm x 610mm), 2 pieces 90° Elbow 6) 1 Thimble Cover 7) 1 Wall Thimble (2 pcs.) Spacer-8) 1 Adapter Spring 9) AstroCap Termination Cap 4 ft. Pipe Length 1 with Kit # 946-216 10) 2 Trim Collar or 2 ft. Pipe Length with tube of Mill-Pac, high temperature sealant 11) 1 Kit # 946-116 12) 12 Screws, #8 x 1/2" Self tapping, Stainless Steel 14 Screws, #8 x 1/2" Self tapping, Black 13) Note: Adapter 4 Screws #8 x 1-1/2" Drill Point, Black 14) a) Liner sections should be con-Trim Collar Screws #8 x 1-1/2" Drill Point, Stainless Steel 4 15) tinuous without any joints or 16) 8 Wood screws #8 x 1" seams. 45° Elbow Part#: 946-214 b) This is an approved system, (not included in Kit) Required but not included in above Kit: therefore components in this 45° Elbow (Part #: 946-214) system must not be substituted for any other manufacturer's products.

DV STOVE HORIZONTAL VENT KIT (#946-116 & #946-216) INSTALLATION

Review the following sequence of instructions which are typical of most installations. The sequence may vary depending on wall thickness. Refer to pages 11 to 18 for vent location and clearance dimensions.

1) Set the unit in its desired location. Check to determine if wall studs will be in the way of the venting system, adjust location until all clearances are met and there are no obstructions.



Note: A 1-1/2"(38mm) clearance around the outer pipe must be maintained except that only a 1" (25mm) clearance is needed at the termination end.

IMPORTANT:

Do not locate termination hood where excessive snow or ice buildup may occur. Be sure to check vent termination area after snow falls, and clear to prevent accidental blockage of venting system. When using snow blowers, make sure snow is not directed towards vent termination area.

- Assemble a trial fit to determine the ver-2) tical center-line for the vent termination.
 - a) Cuta 9-1/2" x 9-1/2" (241mm x 241 mm) square hole on both the interior and exterior wall.
 - b) Install wall thimbles on both interior and exterior wall with 4 wood screws (#8 x 1") per thimble.

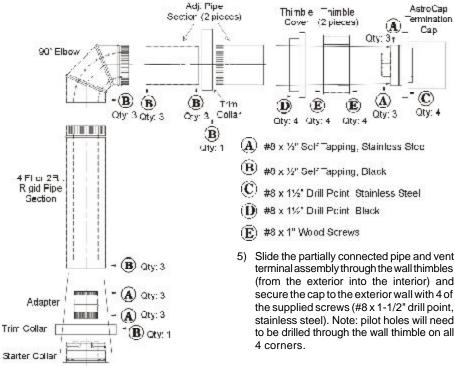
- c) Attach the 2 piece adjustable pipe section to the vent terminal and slide into position from the exterior. The larger diameter end of the adjustable pipe goes to the vent terminal.
- d) Install the 90° elbow onto the adjustable pipe to determine the vertical centerline.

Note: if the centerline cannot be met, the adjustable sections will have to be cut.

e) Cut the 2 ft. or 4 ft. section of rigid pipe to length. Attach the 45° elbow to the rigid pipe, and ensure that the pipe length when cut (with the 45°elbow) will seat onto both the starter collar and the 90° elbow. Crimped section of rigid pipe seats into the 90° elbow. Only cut the uncrimped side of pipe.

Dismantle all pipe sections including vent terminal.

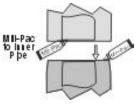
3) Attach the 4" dia. flex liner to the vent terminal ensuring that the flex overlaps the collar of the vent terminal by a minimum



of 1-3/8"(35mm). Use Mill-Pac to seal and secure with 3 of the #8 x 1/2" screws (stainless steel).

4) Attach the adjustable pipe section to the vent terminal using Mill-Pac and/or high temperature silicone and attach with 3 of the #8 x 1/2" screws (stainless steel).

Hint: Apply the sealant (Mill-Pac and/or high temperature silicone) to the outer pipe before connecting the inner pipe.



Note: The pipe seam should be facing down.

Note: To make the Outside installation more aesthetically pleasing, we recommend framing out a square that the cap can be mounted on.

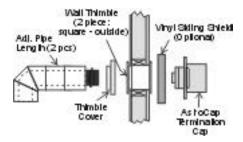
Note: If installing termination on a siding covered wall, a vinyl siding standoff or furring strips must be used to ensure that the termination is not recessed into the siding. For vinyl siding standoff installation refer to the Dura-Vent Termination instructions.

- Note: The four screws provided for the vent cap should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.
- 6) A bead of non-hardening mastic should be run around both the termination and vinyl siding standoff to prevent water from entering and to make a tight seal between the cap and the standoff.
- Stretch the 4" dia. flex liner out fully and get 7) a trial fit of the liner onto the 4" dia. starter collar.
- 8) Cut the 4" dia. flex liner to the desired size.

Hint: leave an extra 12" to 16" of length, this will make the final assembly easier to work with.

- Secure the 4" dia. flex liner to the 4" adapter 9) with Mill-Pac and 3 of the #8 x 1/2" screws (stainless steel).
- 10) Slide the decorative Thimble Cover over the pipe sections and secure with 4 screws (#8 x 1-1/2" drill point, black) to the wall.
- 11) Slide the 90° elbow (crimp end up), the 45° elbow and the 2 ft. or 4 ft. pipe section (crimp end up) over the 4" dia. flex liner.
- 12) Slide the trim collar over the adjustable pipe sections to cover the joint of the telescopic section.
- 13) Install the spring spacers onto the pipe sections.

- 14) Secure the 4" dia. flex liner with adapter onto the stove collar. Put a bead of Mill-Pac around the appliance adapter and secure with 3 screws (#8 x 1/2, stainless steel).
- 15) Attach the 45° elbow onto the starter collar by sealing with Mill-Pac and/or high temperature silicone and securing with 3 of the #8 x 1/2" (black) screws.
- 16) Attach the pipe section to the 45° elbow by sealing with Mill-Pac and/or high temperature silicone and securing with 3 of the #8 x 1/2" screws (black). Pipe seams should be facing the wall.
- 17) Attach the 90° elbow onto the pipe section by sealing with Mill-Pac and/or high temperature silicone and securing with 3 of the #8 x 1/2" screws (black).
- 18) Slide the adjustable pipe section onto the 90° elbow. The flex may have to be compressed back in order for the adjustable pipe to properly mate to the elbow. Seal with Mill-Pac and/or high temperature silicone and secure with 3 of the #8 x 1/2" screws (black). Pipe seams facing down.
- 18) Install the trim collar over the starter collar and secure with a #8 x 1/2" screw (black).



If the pipe needs to be touched up, use only Stove Brite High Temperature Metallic Black Stove Paint.

NOTE: All inner joints must be sealed with Mill-Pac. All outer joints may be sealed with high temperature silicone.

DURA-VENT TERMINATION KIT

Planning Your Dura-Vent Installation

There are two basic types of Dura-Vent Direct Vent System installations: horizontal termination and vertical termination. Confirm the maximum horizontal run and maximum vertical rise from the diagram on page 18.

When planning your installation, it will be necessary to select the proper length of vent pipe for your particular requirements. For horizontal installations, determine the minimum clearance

Fining

Strips

from the rear of the unit to the wall. It is also important to note the wall thickness. (The wall thimble is suitable for 2×4 or 2×6 wall construction.) Select the amount of vertical rise desired for "vertical-to-horizontal" type installations.

The minimum clearance of 1-1/4" (32mm) is required between the outer wall of the vent pipe and nearby combustible surfaces. Be sure to check the vent termination clearance require-

ments from decks, windows, soffits, gas regulators, air supply inlets and public walkways as specified in the Exterior Vent Terminal Locations on page 9 and in your local building codes.

To determine the length of vent pipe required for vertical installations, measure the distance from the unit flue outlet to the ceiling, the ceiling thickness, the vertical rise in an attic or second storey, and allow for sufficient vertical height above the roof line.

For multi-storey applications, fire stops are required at each floor level. If an offset is needed, additional pipe, elbows and supports will be required.

Do not exceed the maximum number of elbows. One 90° for horizontal terminations and two 45° for vertical termination.

RIGID PIPE VENTING COMPONENTS

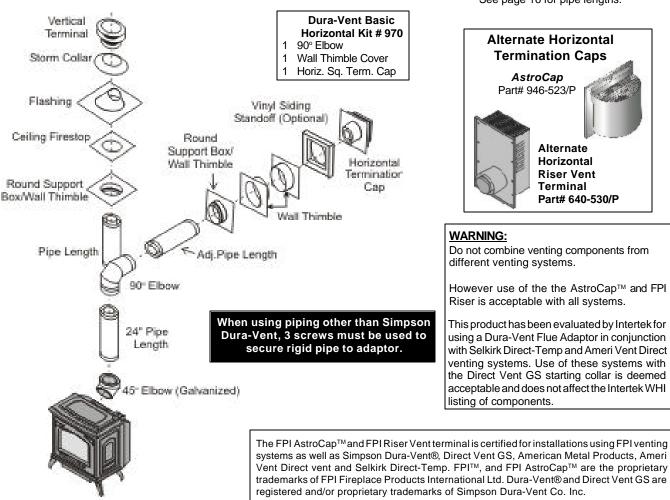
Parts not supplied by Dura-Vent

946-506/P	Vent Guard (Optional)		
640-530	Riser Vent Terminal (Optional)		
948-128	Vinyl Siding Shield for Riser Vent		
	Terminal		
946-228	Horizontal Square Termination Cap		

You will require the following components with your new Waterford Direct Vent Freestanding Gas Stove. Please review your product to make sure you have everything you need. In the event that you are missing any part, contact your dealer. Note: These are the minimum pieces required. Other parts may be required for your particular installation. See page 15 for a list of vent parts.

If installing termination on a siding covered wall, a vinyl siding standoff or furring strips can be used in order to ensure that the termination is not recessed into siding.

The vinyl siding standoff is required for walls with vinyl siding.



Minimum components for a Dura-Vent Horizontal Installation:

- A) Dura-Vent Horizontal Termination Cap
- B) Round Support Box/Wall Thimble
- C) Pipe Length (length varies)
- D) 90° Elbow
- E) Pipe Length (Min. 24")
- F) Adapter (Part # 946-219)
- G) 45° Elbow (Part # 945B)

Minimum components for a Dura-Vent Vertical Termination:

H) Dura-Vent Vertical Termination Kit See page 16 for pipe lengths.

RIGID PIPE VENTING COMPONENTS LIST

All Simpson Dura-Vent components are available directly from FPI.

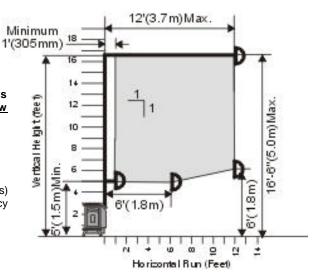
Description	scription Simpson Dura-Vent Direct VentGS ^R		Amerivent ^ℝ Direct Vent	
6" Pipe Length, Galvanized	908	4DT-6	N/A	
6" Pipe Length, Black	908B	4DT-6B	N/A	
7" Pipe Length, Galvanized	N/A	N/A	4D7	
7" Pipe Length, Black	N/A	N/A	4D7B	
		4DT-9		
9" Pipe Length, Galvanized	907		N/A	
9" Pipe Length, Black	907B	4DT-9B	N/A	
12" Pipe Length, Galvanized	906	4DT-12	4D12	
12" Pipe Length, Black	906B	4DT-12B	4D12B	
18" Pipe Length, Galvanized	N/A	4DT-18	N/A	
18" Pipe Length, Black	N/A	4DT-18B	N/A	
24" Pipe Length, Galvanized	904	4DT-24	4D2	
24" Pipe Length, Black	904B	4DT-24B	4D2B	
36" Pipe Length, Galvanized	903	4DT-36	4D3	
36" Pipe Length, Black	903B	4DT-36B	4D3B	
48" Pipe Length, Galvanized	902	4DT-48	4D4	
48" Pipe Length, Black	902B	4DT-48B	4D4B	
Adjustable Length, 11"-14", Galv.	911	4DT-AJ	N/A	
Adjustable Length, 11"-14", Black	911B	4DT-AJB	N/A	
Adjustable Length, 17"-24", Black	917B	N/A	N/A	
Adjustable Length, 7" Galvinized	N/A	N/A	4D7A	
Adjustable Length, 7" Black	N/A	N/A	4D7AB	
Adjustable Length, 12" Galvinized	N/A	N/A	4D12A	
Adjustable Length, 12" Black	N/A	N/A	4D12AB	
45° Elbow, Galvinized	945	4DT-EL45	4D45L	
45° Elbow, Black	945B	4DT-EL45	4D45LB	
,				
45° Elbow, Swivel, Galvinized	945G	N/A	N/A	
45° Elbow, Swivel, Black	945BG	N/A	N/A	
90° Elbow, Galvinized	990	4DT-EL90S	4D90LS	
90° Elbow, Black	990B	4DT-EL90SB	4D90LBS	
90° Elbow, Swivel, Galvinized	990G	N/A	N/A	
90° Elbow, Swivel, Black	990BG	N/A	N/A	
Ceiling Support	949 - n/a from FPI	4DT-CS	4DFSP	
Cathedral Support Box	941	4DT-CSS	4DRSB	
Wall Support/Band	988	4DT-WS/B	4DWS	
Offset Support	989 - n/a from FPI	4DT-OS	N/A	
Wall Thimble, Black	942	4DT-WT	4DWT	
Wall Thimble Support Box/Ceiling Support	940	N/A	N/A	
Firestop Spacer	963	4DT-FS	4DFSP	
Trim Plate, Black	N/A	4DT-TP	4DFPB	
Brass Trim for Wall Thimble/Ceiling Support	3951	N/A	N/A	
Attic Insulation Shield 12"	NI/A	NI/A		
	N/A	N/A	4DAIS12	
Attic Insulation Shield - Cold Climates 36"	N/A	N/A	4DAIS36	
Basic Horizontal Termination Kit (A)	970	4DT-HKA	4DHTK2	
Horizontal Termination Kit (B)	971	4DT-HKB	4DHTK1	
Vertical Termination Kit	978	4DT-VKC	4DVTK	
High Wind Vertical Cap	991	N/A	N/A	
High Wind Horizontal Cap	985	N/A	N/A	
Horizontal Square Termination Cap	984	4DT-HHC	4DHC	
Verical Termination Cap	980	4DT-HVC	4DVC	
Storm Collar	953	4DT-SC	4DSC	
Adjustable Flashing, 0/12-6/12	943	4DT-AF6	4DF	
Adjustable Flashing, 6/12-12/12	943S	4DT-AF12	4DF12	
Vinyl Siding Standoff	950	4DT-VS	N/A	
Vinyl Siding Shield Plate	N/A	4DT-VSP	N/A	
Sporkal Tarmination 14"	083	4DT 8T44	10100	
Snorkel Termination 14"	982	4DT-ST14	4D12S	
Snorkel Termination 36"	981	4DT-ST36	4D36S	
946-506/P Vent Guard (Optional)		946-523/P AstroCap Hor	izontal Cap	
946-205 Vinyl Siding Shield for R	liser Vent Terminal		Standoff - AstroCap	

RIGID PIPE VENTING -HORIZONTAL TERMINATIONS

The shaded area in the diagram below shows all allowable combinations of vertical runs with horizontal terminations. <u>Maximum one 90° elbow</u> (two 45° elbows equal one 90° elbow) using Dura-Vent Venting Systems

Residential and Manufactured Homes / Mobile Homes Installations

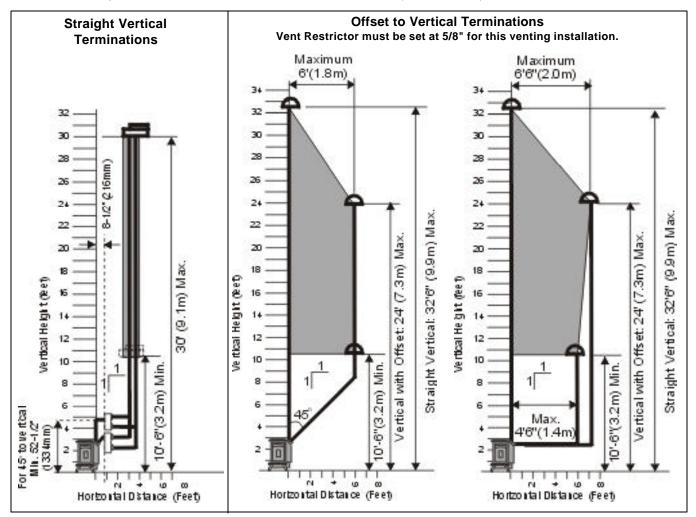
The venting arrangements diagrammed below, have a minimum of 75% (flue loss) efficiency with Fan Off, as required for manufactured homes. (Actual efficiency may be as high as 85%.)



RIGID PIPE VENTING - VERTICAL TERMINATIONS

for both Residential & Manufactured Homes/Mobile Homes

The shaded areas in the two diagrams below show all allowable combinations of straight vertical and offset to vertical runs with vertical terminations. <u>Maximum two 45° elbows (not including the 45° elbow attached to the unit.</u>). All vertical and offset to vertical vent installations require Vent Restrictor #1. If the vent is ENCLOSED in a chase (min. size 9" x 9") maintain a 1-1/4" clearance to combustibles.

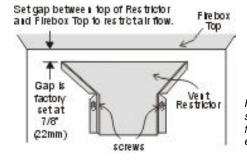


VENT RESTRICTOR

The above Offset to Vertical Installation requires more restriction, the Vent Restrictor must be set to 5/8" (16mm).

The Vent Restrictor on the stove comes preset with a 7/8" (22mm) opening. The Vent Restrictor is located inside the firebox over the flue outlet.

To adjust the restrictor simply use a large phillips screwdriver to loosen the 2 retaining screws and slide the restrictor up to a 5/8" gap. Tighten the screws to secure it in position.

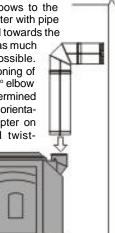


DURA-VENT HORIZONTAL INSTALLATIONS

- Set the unit in its desired location. Check to determine if wall studs or roof rafters are in the way when the venting system is attached. If this is the case, you may want to adjust the location of the unit.
- 2) Direct Vent pipe and fittings are designed with special twist-lock connections to connect the venting system to the appliance flue outlet. A twist-lock appliance adapter is installed on the unit at the factory. Assem-

ble the desired combination of pipe and elbows to the appliance adapter with pipe seams oriented towards the wall or ceiling, as much out of view as possible. The final positioning of the pipe and 90° elbow assembly is determined by the mounting orientation of the adapter on the stove and twistlocked for a sol-

id connection.



Note:

a) Twist-lock procedure: Four indentations, located on the female ends of pipes and fittings, are designed to slide straight onto the male ends of adjacent pipes and fittings, by orienting the four pipe indentations so they match and slide in to the four entry slots on the male ends (diagram 1). Push the pipe sections completely together, then twist-lock one section clockwise approximately one-quarter turn, until the two sections are fully locked. The female locking lugs will not be visible from the outside on the Black Pipe or fittings. They may be located by examining the inside of the female ends. Apply sealant "Mill-Pac" to inner pipe and high temp silicone sealant to outer pipe on every twist-lock joint.

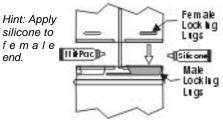


Diagram 1

- b) Horizontal runs of vent must be supported every three feet. Wall straps are available for this purpose.
- 3) With the pipe attached to the stove, slide the stove into its correct location, and mark the wall for a 10" x 10" (inside dimensions) square hole. The center of the square hole should line up with the centerline of the horizontal pipe. Cut and frame the 10 inch square hole in the exterior wall where the vent will be terminated. If the wall being penetrated is constructed of non-combustible material, i.e. masonry block or concrete, a 7" diameter hole is acceptable.

Note:

- a) The horizontal run of vent should have a 1/4 inch rise for every 1 foot of run towards the termination. Never allow the vent to run downward. This could cause high temperatures and may present the possibility of a fire.
- b) The location of the horizontal vent termination on an exterior wall must meet all local and national building codes, and must not be blocked or obstructed. For External Vent Terminal Locations, see diagram on page 10.
- 4) If installing the vent termination to a wall with vinyl siding, the Vinyl Siding Standoff must be used. Attach the Vinyl Siding

Standoff to the Horizontal Vent Termination, but first run a bead of non-hardening mastic around its outside edges, so as to make a seal between vent cap and the standoff. Install the Vinyl Siding Standoff (Part #950) between the vent cap and the exterior wall and attach with the four wood screws provided. Seal around the Vinyl Siding Standoff on all four sides. Diagram 2. **Thearrow on the vent cap should be pointing up.** Insure that the 1-1/4" clearances to combustible materials are maintained. See diagram 2.

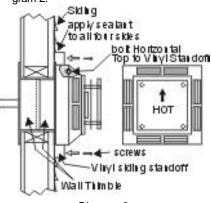
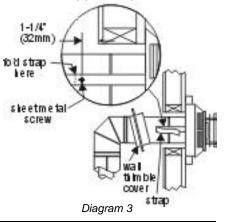


Diagram 2

- Note: If installing termination on a siding covered wall, a vinyl siding standoff or furring strips must be used to ensure that the termination is not recessed into the siding. The four wood screws provided should be replaced with appropriate fasteners for stucco, brick, concrete, or other types of sidings.
- 5) Before connecting the horizontal run of vent pipe to the vent termination, slide the black decorative wall thimble cover over the vent pipe, then slide the Wall Thimble (Part # 942) over the vent pipe.
- 6) Slide the appliance and vent assembly towards the wall carefully inserting the vent pipe into the vent cap assembly. It is important that the vent pipe extends into the vent cap a sufficient distance so as to result in a minimum pipe overlap of 1-1/4 inches.



Secure the connection between the vent pipe and the vent cap by attaching the two sheet metal strips extending from the vent cap assembly into the outer wall of the vent pipe. Use the two sheet metal screws provided to connect the strips to the pipe. Bend any remaining portion of the sheet metal strip back towards the vent cap, so it will be concealed by the decorative wall thimble cover. See diagram 3.

- Install wall thimble in the center of the 10" square and attach with wood screws.
- Slide the decorative wall thimble up to the wall surface being careful not to scratch the paint and attach with screws provided. Apply decorative brass or chrome trim if desired. See diagram 4.

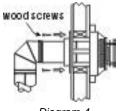


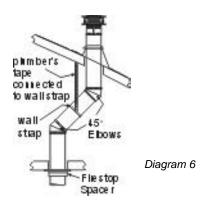
Diagram 4

DURA-VENT VERTICAL TERMINATION

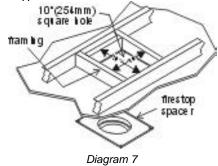
- Maintain the 1-1/4" clearances (air spaces) to combustibles when passing through ceilings, walls, roofs, enclosures, attic rafter, or other nearby combustible surfaces. Do not pack air spaces with insulation. Check page 16 for the maximum vertical rise of the venting system and the maximum horizontal offset limitations.
- 2) Set the gas appliance in its desired location. Drop a plumb bob down from the ceiling to the position of the appliance flue exit, and mark the location where the vent will penetrate the ceiling. Drill a small hole at his point. Next, drop a plumb bob from the roof to the hole previously drilled in the ceiling, and mark the spot where the

vent will penetrate the roof. Determine if ceiling joists, roof rafters or other framing will obstruct the vent-

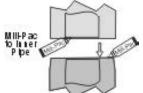
ing system. You may wish to relocate the appliance or to offset, as shown in diagram 6 to avoid cutting load bearing members.



3) To install the Round Support Box/Wall Thimble in a flat ceiling, cut a 10 inch square hole in the ceiling centred on the hole drilled in Step 2. Frame the hole as shown in diagram 7.



4) Assemble the desired lengths of black pipe and elbows necessary to reach from the appliance adapter up though the Round Support Box. Insure that all pipes and elbow connections are in the fully twistlocked position and sealed.



Note: Apply sealant "Mill-Pac" to inner pipe and high temp silicone sealant or "Mill-Pac" to outer pipe on every joint.

5) Cut a hole in the roof centred on the small drilled hole placed in the roof in Step 2. The hole should be of sufficient size to meet the minimum requirements for clearance to combustibles of 1-1/4". Slip the flashing under the shingles (shingles should overlap half the flashing) as per diagram 8.

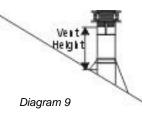


Diagram 8: The upper half of the flashing is installed under the roofing material and not nailed down until the chimney is installed. This allows for small adjustments.

- 6) Continue to assemble pipe lengths.
- Note: If an offset is necessary in the attic to avoid obstructions, it is important to support the vent pipe every 3 feet, to avoid excessive stress on the elbows, and possible separation. Wall straps are available for this purpose. See diagram 4.

Galvanized pipe and elbows may be utilized in the attic as well as above the roofline. The galvanized finish is desirable above the roofline due to its higher corrosion resistance.

Continue to add pipe sections through the flashing until the height of the vent cap meets the minimum height requirements specified in diagram 9 or local codes. Note that for steep roof pitches, the vertical height must be increased. A poor draft, or down drafting can result from high wind conditions near big trees or adjoining roof lines, in these cases, increasing the vent height may solve the problem.

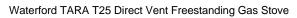


Roof Pitch	Minimum Vent Height		
	Feet	Meters	
flat to 7/12	2	0.61	
over 7/12 to 8/12	2	0.61	
over 8/12 to 9/12	2	0.61	
over 9/12 to 10/12	2.5	0.76	
over 10/12 to 11/12	3.25	0.99	
over 11/12 to 12/12	4	1.22	
over 12/12 to 14/12	5	1.52	
over 14/12 to 16/12	6	1.83	
over 16/12 to 18/12	7	2.13	
over 18/12 to 20/12	7.5	2.29	
over 20/12 to 21/12	8	2.44	

- 7) Ensure vent is vertical and secure the base of the flashing to the roof with roofing rails, slide storm collar over the pipe section and seal with a mastic.
- 8) Install the vertical termination cap by twist locking it.

Notes:

 a) For multistorey vertical installations, a Ceiling Fire stop (Part # 963) is required at the second floor, and any subsequent floor. Diagram 10. The opening should be framed to 10
 " x 10" inside dimensions, in the same manner as shown in diagram 7.



b) Any occupied areas above the first floor, including closets and storage spaces, through which the vertical vent passes, must be enclosed.

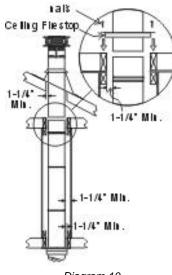
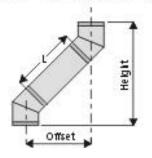


Diagram 10

Offset Chart

G	\$ 6"(1	52m m) No	minail	Diamete	r ID
Offs	et	Pipe Les	gti (L)	Heig	1t
C es	mm	I Ches	mm	licies	mm
4.54	121	0	0	13 1/4	337
9	229	6	152	17 1/2	445
11 1/4	286	9	229	19 1/2	495
13 14	337	12	305	21 3/4	552
2134	552	24	610	30 1/4	768
30 1/4	768	36	914	39	991
38	965	48	1219	47	1194

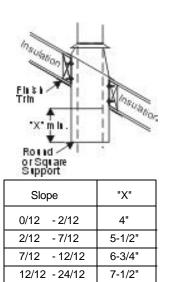


CATHEDRAL CEILINGS

Round Support (RDS) & Square Support (SQS)

If your home has a cathedral ceiling (no attic space between the ceiling and the roof), install the chimney and support as follows.

 Situate the chimney in a convenient location as near as possible to the appliance outlet. Cut and frame a hole in the roof for the support. The sides of this hole must be vertical with 1 1/4" clearance.



2) Place the support in the opening. Lower it to the correct height as determined by the table and diagram below.

12-1/2"

24/12+

Using a level, make sure the support is vertical. If the support extends above the roof, cut it flush with the top of the roof. Nail the support to the frame opening using (8) 3" spiral nails or #8 x 1-1/2" screws.

Note: If you are using a 6" square support you may find it difficult to screw it in place because it is fairly small inside.

Simpson Dura-Vent has provided angle brackets with this support which can be screwed to the outside of the support box and nailed to surrounding framing as required. Use a minimum of four #8 x 1/2" screws per bracket. In some cases these brackets may need to be trimmed (e.g.: to fit under a flashing). Place the Finish Collar around the support and fasten it to the ceiling using the screws provided.

- **3)** Use appropriate roof flashing. Place the flashing under the upper shingles and on top of the lower shingles approximately half of the flashing should be under the shingles.
- Assemble the desired lengths of Black Pipe and Elbows necessary to reach from the appliance adapter up through the support box and flashing to proper height as per Dia. 12, local codes or page 16. Ensure that all pipe and elbow connections are in their fully twist lock position.
- 5) Ensure vent is vertical and secure flashing to the roof with roofing nails. Slide the storm collar over the pipe section and seal with a mastic.
- 6) Twist lock the vent cap on to the last section.

Support Extensions - Round (RDSE) or Square (SQSE)

Steep pitched cathedral ceilings may require the use of a support extension. This piece fits down inside the support and can be adjusted to increase the support's length by up to 22". The extension is attached to the support using the eight metal screws provided. Be sure there is at least a 2 inch overlap where the extension joins the support.

CONVERTING A CLASS-A METAL CHIMNEY OR MASONRY CHIMNEY TO A DIRECT VENT SYSTEM

General

There are two different types of direct vent conversion systems listed below. Follow the appropriate directions for your installation.

- A) Through an existing factory built metal chimney going through the ceiling: A typical conversion of this type is shown in diagram 1. The concept of direct vent conversion is to connect an adaptor to an Underwriters Laboratories (UL) listed 4 inch diameter aluminum flex pipe which is then passed down through the center of the existing metal chimney system. Three sizes of Top Adaptors are available from Simpson Dura-Vent. The Retro Connector (909B) is attached to the bottom of the flex pipe. The Top Adaptor and the Retro Connector are attached to the existing chimney with sheet metal screws. The appliance is then connected to the chimney with appropriate black direct vent pipe and an adjustable length section.
- B) Through the wall of an existing masonry chimney: A typical conversion of an existing masonry chimney is shown in Diagram 6. A Top Adaptor (985K) and Flashing are used at the top of the masonry chimney. The 4 inch aluminum liner is connected to the adaptor and is passed down the chimney and out through the masonry wall and attached to the Retro Connector (909B). The Retro Connector is attached to the masonry wall and then connected to the direct vent pipe leading to the appliance.

Prior to installation and connection of the vent system to a factory-built or masonry chimney, the chimney must be inspected and thoroughly cleaned by a qualified service person, such as a certified chimney sweep or home inspection service.

The direct vent system must not be connected to a damaged factory-built or masonry chimney.

For factory built, zero clearance, and masonry chimneys cleanout doors and caps or plugs for cleanout tee fittings and ash dumps shall be secured in place and sealed before installing a Direct Vent system within the chimney.

If the appliance shuts off during operation, contact a qualified service person to determine if a negative pressure and/or leaky chimney condition exists. Do not operate the appliance until the problem is corrected.

Approved for US Installations Only The use of an existing chimney as an air intake is not covered under the ANSI Z21.88b-1999, CSA 2.33b-M99 test methods and the resulting ITS/WHI product certification. The code Authority Having Jurisdiction must be consulted prior to proceeding with this installation method.

Converting a Factory Built Metal Chimney

- 1) Remove the existing chimney cap.
- 2) Measure the distance from the top end of the chimney to the bottom of the ceiling support box, add 3" (76mm) to this measurement, and cut a section of the 4" flex pipe to that length (the flex should already be extended to its nominal length).

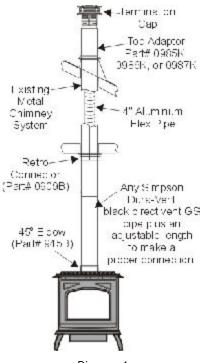


Diagram 1

3) Connect the end of the flex pipe section to the underside of the Top Adaptor using 3 sheet metal screws. Diagram 2.

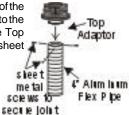
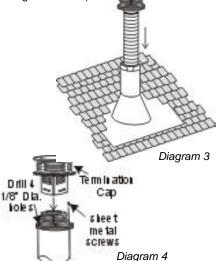
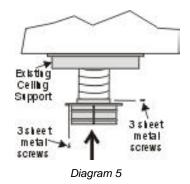


Diagram 2

4) Pass the flex pipe down through the center of the chimney system, and center the adaptor on the top of the chimney pipe. Drill four 1/8" diameter holes through the adaptor and into the chimney top. Insure that you are in fact, drilling into the metal on the chimney. Twist-lock the Termination Cap (Part# 980 or 991) onto the Adaptor. (Diagram 3 and 4).



- 5) Pull the flex pipe down through the ceiling support box, until it protrudes approximately 3" (76mm). Connect the flex pipe to the Retro Connector by slipping it into the 4-3/4" diameter sleeve on the top side of the Connector. Use 3 sheet metal screws to assemble these two parts.
- 6) Push the flex pipe back up into the ceiling support box, center the Retro Connector, and attach it to the support box, or decorative sleeve for double wall solid packed pipe, with the sheet metal screws (supplied). The holes in the Retro Connector are pre-punched. Diagram 5.



 The connection between the appliance and the Retro Connector may be completed with sections of black direct vent pipe, together with an adjustable length.

Converting a Masonry Chimney

Important: The existing masonry flue opening needs to have an area of at least a 36 sq. in. to insure proper intake/exhaust flow.

1) Before cutting any holes, assemble the desired sections of black direct vent pipe to determine the center of the masonry penetration.

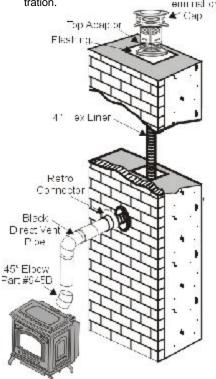
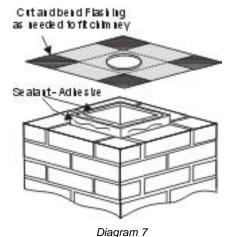


Diagram 6

- 2) Once the center point of the penetration has been determined, cut a 6" (152mm) dia, hole in the masonry. Be careful, if the hole is too large, the Retro Connector might not mount properly, and if the hole is too small, then the appliance might starve for intake air. If there is a frame wall in front of the masonry wall, cut and frame a 10" (254mm) clear square opening in the wall (centered around the 6" (152mm) masonry opening). IF there is sheet rock only (no studs) in front of the masonry, the 10" (254mm) clear opening is still needed, but does not need to be framed. This allows the Retro Connector to mount directly on the masonry and provide clearance to the combustibles. Diagram 11.
- Secure the Flashing (Part #705C) to the top of the masonry chimney using a bead of non-hardening sealant-adhesive. If the Flashing is larger than the top of the chimney, then cut and fold flashing as needed to fit chimney. Diagram 7.



4) To determine the length of flex required,

measure from 3" (76mm) above the top of

the Flashing down to the level of the open-

ing. Add to this measurement the distance

from the center of the chimney to out through

the wall. Cut a piece of 4" flex to this length

(the flex should already be extended to its

nominal length).

Diagram 2.

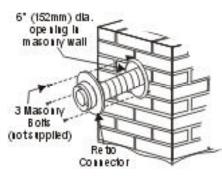
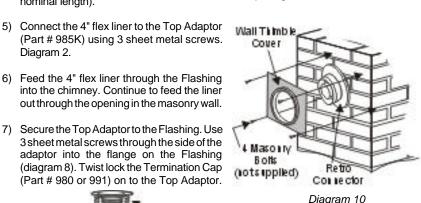
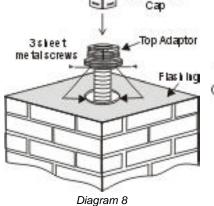


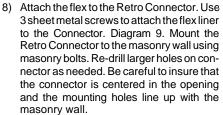
Diagram 9

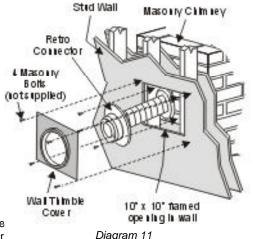
9) Slide the Wall Thimble Cover (Part # 940) over the Retro Connector and secure with masonry bolts. Diagram 10. If you have a framed wall in front of the masonry, use wood screws to mount the Wall Thimble Cover to the framed wall, over the Retro Connector and the 10" (254mm) square framed opening. Diagram 11. If needed, add a section of direct vent pipe to the Retro Connector in order to extend through the opening in the Wall Thimble Cover.





mination





10) The connection between the appliance and the Retro Connector may be completed with a section of black direct vent pipe, together with an adjustable length pipe section.

HIGH ELEVATION

This unit is approved in Canada for altitude to 4500 ft. (CAN/CGA-2.17-M91) with the resized orifice. For Natural Gas installations above 4500 ft. follow current CAN/CGA-B149.1.

In U.S.A., for installations above 2000 ft. refer to current ANSI Z223.1 Sc8-8.1.2a appendix F, for resizing orifice.

System Dat	a - TA	RA T25
For 0 to 4500 feet al Burner Inlet Orifice S Natural Burner #4	Sizes: Gas	Propane #53
Max. Input Rating - Natural Gas - Propane	,	0 Btu/h 0 Btu/h
Min. Input Rating - Natural Gas - Propane		0 Btu/h 0 Btu/h
Output Capacity Natural Gas Propane	,	5 Btu/h 0 Btu/h
Supply Pressure Natural Gas Propane	min. min.	5.0" w.c. 12.0" w.c.
Manifold Pressur Natural Gas Propane	e 3.8" 11"	+/- 0.2" w.c. +/- 0.2" w.c.

GAS CONNECTION

The gas connection is a 3/8" NPT 90° elbow. The gas line can be rigid pipe or to make installation easier, use a listed flexible connector and/or copper tubing if allowed by local codes. Since some municipalities have additional local codes it is always best to consult with your local authorities and the CAN/CGA B149 installation codes.

For USA installations follow local codes and/or the current National Fuel Gas Code, ANSI Z223.1.

The gas control valve is under the unit, behind the drop down door and control panel. The gas inlet is located on the left side of the unit (viewed from the front). The inlet fitting is a 3/8" male flare.



Valve Assembly: View from the rear

Gas Inlet

When using copper or flex connectors use only approved fittings. Always provide a union so that gas lines can be easily disconnected for burner and/or valve servicing. Flare nuts for copper lines and flex connectors are usually considered to meet this requirement.

Important: Always check for gas leaks with a soap and water solution or gas leak detector. Do not use open flame for leak testing.

Note: Prior to any pressure testing of the gas supply piping system that exceeds test pressures of 1/2 psig, this appliance must be disconnected from the piping system. If test pressures equal to or less than 1/2 psig are used then this appliance must be isolated from the piping system by closing its individual manual shut-off valve during the testing.

Recommended Gas Pipe Diameter

Pipe	Schedule 40		Tubing,	
Length	Pipe		Type	L
(feet)	Inside Dia	meter	Outside D	Diameter
	NG	LP	NG	LP
0 - 10	1/2"	3/8"	1/2"	3/8"
	1.3cm	1.0cm	1.3cm	1.0cm
10 - 40	1/2"	1/2"	5/8"	1/2"
	1.3cm	1.3cm	1.6cm	1.3cm
40 - 100	1/2"	1/2"	3/4"	1/2"
	1.3cm	1.3cm	2.0cm	1.3cm
100 - 150	3/4"	1/2"	7/8"	3/4"
	2.0cm	1.3cm	2.3cm	2.0cm

Note: Never use plastic pipe. Check to confirm whether your local codes allow copper tubing or galvanized pipe.

GAS PIPE PRESSURE TESTING

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig. (3.45 kPa). Disconnect piping from valve at pressures over 1/2 psig. The manifold pressure is controlled by a regulator built into the gas control, and should be checked at the pressure test point.

Note: To properly check gas pressure, both inlet and manifold pressures should be checked using the valve pressure ports on the valve.

- 1) Make sure the valve is in the "OFF" position.
- Loosen the "IN" and/or "OUT" pressure tap(s), turning counterclockwise with a 1/ 8" wide flat screwdriver.
- **3)** Attach manometer to "IN" and/or "OUT" pressure tap(s) using a 5/16" ID hose.
- 4) Light the pilot and turn the valve to "ON" position. Read manometer.
- 5) The pressure check should be carried out with the unit burning and the setting should be within the limits specified on the safety label.
- 6) When finished reading manometer, turn off the gas valve, disconnect the hose and tighten the screw (clockwise) with a 1/8" flat screwdriver. <u>Note: Screw should be</u> <u>snug, but do not over tighten</u>

Valve Description

- 1) Gas cock knob
- 2) Manual high/low adjustment
- 3) Pilot Adjustment
- 4) Thermocouple Connection
- 5) Main Operator
- 6) Outlet Pressure Tap (Manifold Pressure)
- 7) Inlet Pressure Tap (Supply Pressure)
- 8) Pilot Outlet
- 9) Main Gas Outlet
- 10) Flange Securing Screw Holes
- 11) Alternative TC Connection Point
- 12) Thermoelectric Unit
- 13) Additional Valve Mounting Hole

CONVERSION KIT FROM NATURAL GAS TO PROPANE

Kit: #290-969 for TARA Gas Stove using SIT 820 NOVA Gas Valve

THIS CONVERSION MUST BE DONE BY A QUALIFIED GAS FITTER. IF IN DOUBT DO NOT DO THIS CONVERSION !!

Conversion Kit Contains:

1	910-018	SIT Conversion Kit-50%
		Turndown LP
1	910-037	SIT LP Pilot Orifice
1	904-345	Rear Burner Orifice #53
1	908-255	Decal "Converted to Propane"
1	908-528	Red "PROPANE" label
1	908-529	5/32 Allen Key
1	908-797	Instruction Sheet

NOTE: If the conversion to Propane is being made at the time of installation, the valve may be removed to make it more accessible.

- 1) Shut off the gas supply.
- Remove the Cast Iron Front Panel. Hold the cast iron front panel at the bottom and lift upwards and out from the stove. Once free of the locating tabs, the panel can be dropped down; freeing it from the top of the stove.

Place the cast iron front panel on a nonabrasive surface, away from any traffic to ensure that it does not get damaged.

- Remove the Front Glass Panel. Using a 7/ 16" socket wrench, remove the 6hex head bolts used to secure the glass panel and frame to the stove. Remove the frame and glass panel and set it aside.
- 4) Remove the logs.
- 5) Remove the burner tube by removing the locking screw on the rear burner support bracket and then lift the burner out.

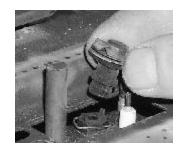




 Using a 1/2" deep socket remove the burner orifice and install new front burner orifice LP stamped #53 and tighten.



7) Pull off the pilot cap to expose the pilot orifice.



 Unscrew the pilot orifice with the allen key and replace with the LP pilot orifice in the kit.

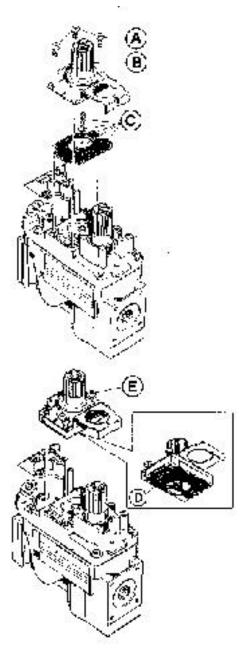




- 9) Replace the burner. Place the burner onto the support bracket and guide the front of the burner onto the burner injector. The burner air shutter gears must be aligned. Check to make sure that the two gears engage each other by at least two-thirds of their thickness. If not, it will be necessary to disengage the burner and screw the drive gear in and out as required. Once everything is aligned properly, secure the burner with the locking screw.
- 10) Re-install the logs, front glass panel and cast iron door front.
- Remove and discard the 3 pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C).
- 12) Insure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely.
- 13) Attach clear label "This unit has been converted to Propane" on the serial # decal.
- 14) Replace yellow "Natural Gas" label with red "Propane" label.
- 15) Take the Decal with the Propane Orifice #, Manifold Pressure, Input, etc. and attach to

the stove's rear heat shield to indicate that the unit has been converted to burn propane.

- 16) Check for gas leaks.
- 17) Check inlet and outlet pressures.
- 18) Check operation of flame control.
- 19) Check for proper flame appearance and glow on logs.



AERATION ADJUSTMENT

The burner aeration is factory set but may need adjusting due to either the local gas supply, air supply or altitude. The flames should not extend to the top of the firebox and excessive soot should not be present. The air shutter and the flue restrictor setting will both affect the flame pattern.

Natural Gas: 1/4" (7mm) open Propane: wide open

- 1) Remove the Front Cast Iron Panel and Glass Panel, see instructions on page 26.
- 2) Remove the complete log set. (See Log Installation instructions on page 27).
- Using a 1/4" nut driver or flat screwdriver, loosen the locking screw on the burner air shutter.



- 4) Replace the log set, and glass panel.
- 5) Insert a 3/16" Allen wrench into the adjusting key (through) the hole on the rear panel of the stove).



- 6) Turn the mechanism until to change the flame pattern. Turning clockwise will diminish the flame, and turning counter-clockwise will increase the flame. The rear flame must not extend and touch the top of the firebox and no soot should be forming on any surfaces.
- 7) Remove the glass panel, and the log set.

- 8) Using the 1/4" nut driver or flat screwdriver, tighten the locking screw on the burner air shutter.
- 9) Replace the log set, glass panel and Cast Iron Front Panel.

Caution: Carbon will be produced if the air shutter is closed too much.

- Note: Any damage due to carboning resulting from improperly setting the aeration controls is NOT covered under warranty.
- Note: Aeration Adjustment should only be performed by an authorized Regency Installer at the time of installation or service.

REMOVING THE CAST IRON FRONT PANEL

 Hold the cast iron front panel at the bottom and lift upwards and out from the stove. Once free of the locating tabs, the panel can be dropped down; freeing it from the top of the stove.

Place the cast iron front panel on a nonabrasive surface, away from any traffic to ensure that it does not get damaged.





 Remove the Front Glass Panel. Using a 7/16" socket wrench, remove the 6 hex head bolts used to secure the glass panel and frame to the stove. Remove the frame and glass panel and set it aside.



Securing the Cast Iron Front Panel

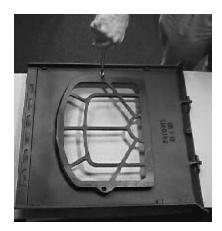
- 1) Catch the panel in the viewing area and on the bottom edge.
- 2) Place the front panel against the stove just below the top panel.
- Slide the panel upwards under the top panel. When the top is in position, push the bottom edge into position. Push downwards to secure the locating pins in the locating tabs.

OPTIONAL FRONT GRILL

 Remove the Cast Iron Front Panel. Catch the cast iron front panel at the bottom and lift upwards and out from the stove. Once free of the locating tabs, the panel can be dropped down; freeing it from the top of the stove.

Place the cast iron front panel on a nonabrasive surface, away from any traffic to ensure that it does not get damaged.

2) Lay the grill into position on the inside of the Cast Iron Front Panel and secure using the 2 screws provided.

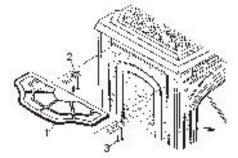


OPTIONAL SIDE SHELF

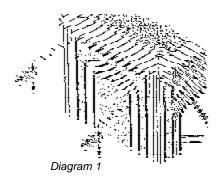
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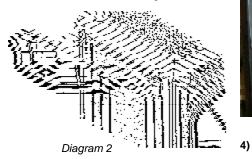
- 1 Side Shelf
- 2 Side Shelf Bracket
- 4 Screws (1/4" x 1/2")



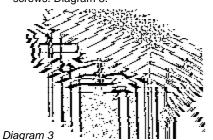
1) Screw the 2 side shelf brackets to the underside of the stove hob. Diagram 1.



2) Place the side shelf onto the 2 brackets and secure with 2 screws. Diagram 2.



 Align the side shelf so that it is centered on the hob making sure not to damage the enamel finish. Once aligned, tighten all screws. Diagram 3.



LOG INSTALLATION

WARNING: Dangerous operating conditions may occur if these logs are not positioned in their approved locations. Read the instructions below carefully and refer to the diagrams. If logs are broken do not use the unit until they are replaced. Broken logs can interfere with the pilot and burner operation.

There are 5 logs in the set: 1 Rear Log, 1 Front Log, 1 Middle Log and 2 Top Logs.

The logs are fragile, handle with care - **DONOT FORCE** into position.

- 1) Remove the Cast Iron Front Panel (see page 26).
- 2) Remove the Front Glass Panel and frame (see page 26.)
- 3) Place the rear log on the 2 rear pins in the log support tray.





Note: Do not force logs down.

Place the front log on the log support tray. Ensure that it is pulled all the way to the front and towards the right side of the firebox.



5) Place the middle log on the 2 middle log pins.



6) Place the 2 top logs in position on the middle and rear logs as shown below. Place the right log as close to the knot on the rear log as possible.



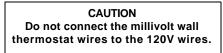
- 7) Replace the Front Glass Panel and frame and tighten the fixing bolts.
- 8) Replace the Cast Iron Front Panel.

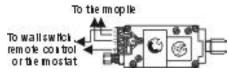
OPTIONAL WALL THERMOSTAT

A wall thermostat may be installed if desired. Connect the wires as per the wiring diagrams. Note that the wires are connected to the "TH" on the gas valve. Use table on page 27 to determine the maximum wire length:

Note: Preferable if the thermostat is installed on an interior wall.

Waterford offers an optional programmable thermostat but any 250-750 millivolt rated nonanticipator type thermostat that is CSA, ULC or UL approved may be used.





Thermostat Wire Table

Recommended Maximum Lead Length (Two-Wire) When Using Wall Thermostat (CP-2 System)

Wire Size	Max. Length
14 GA.	50 Ft.
16 GA.	32 Ft.
18 GA.	20 Ft.
20 GA.	12 Ft.
22 GA.	9 Ft.

OPTIONAL REMOTE CONTROL

Use the Waterford Remote Control Kits approved for this unit. Use of other systems may void your warranty.

The remote control kit comes with a hand held transmitter, a receiver and a wall mounting plate.

- Choose a convenient location on the wall to install the receiver and the receptacle box (protection from extreme heat is very important). Run wires from the fireplace to that location, use Thermostat Wire Table.
- 2) Connect the wires as per the wiring diagram below.

CAUTION Do not connect the millivolt remote control wires to the 120V wires.

3) Install 3 AAA alkaline batteries in transmitter and 4 AA alkaline batteries in the receiver. Install the receiver and its cover in the wall. Switch the remote receiver to "remote" mode. The remote control is now ready for operation.

FINAL CHECK

Before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly. This includes:

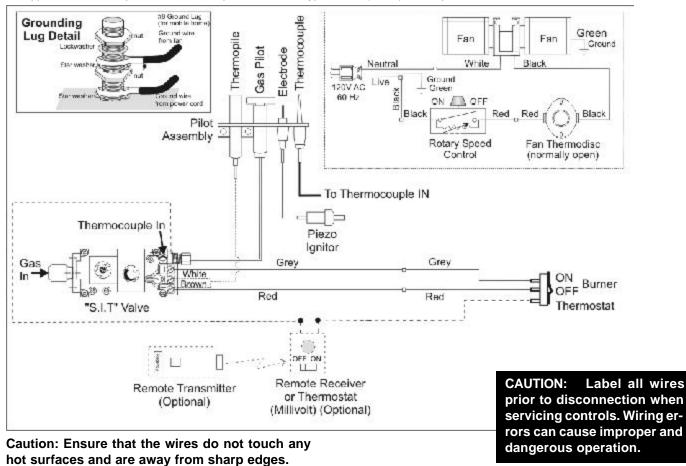
- 1) Clocking the appliance to ensure the correct firing rate (rate noted on label) at 15 minutes.
- If required, adjusting the primary air to ensure that the flame does not carbon. First allow the unit to burn for 15 min. to stabilize.
- 3) Check for proper draft.

CAUTION

Any alteration to the product that causes sooting or carboning that results in damage to the exterior facia is not the responsibility of the manufacturer.

WIRING DIAGRAM - TARA

This heater does not require a 120V A.C. supply for operation. In case of a power failure, the burner switch and the optional remote control/thermostat will continue to operate. However, a 120V A.C. power supply is needed for the fan/blower operation. If any of the original wires as supplied with the appliance must be replaced, it must be replaced with CSA type SEW-2 (200°C) or its equivalent.



OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS

- 1) Read and understand these instructions before operating this appliance.
- 2) Check to see that all wiring is correct and enclosed to prevent possible shock.
- 3) Check to ensure there are no gas leaks.
- 4) Make sure the glass in the door frame is properly positioned. Never operate the appliance with the glass removed. Never strike the glass or slam the door shut.
- 5) Verify that the venting and cap are unobstructed.
- 6) Verify log placement. If the pilot cannot be seen when lighting the unit the logs have been incorrectly positioned.
- 7) The unit should never be turned off, and on again without a minimum of a 60 second wait.

LIGHTING PROCEDURE

IMPORTANT: Gas cock knob cannot be turned from "PILOT" to "OFF" unless it is partially depressed.

 Turn stove OFF using the Burner "ON/OFF" switch remote or thermostat. Switches are located at the top right hand corner (rear) of the stove.

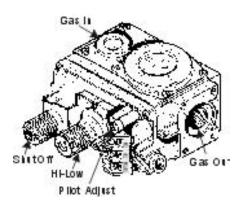


- Turn gas control knob so indicator points to "OFF" position and allow 5 minutes for any gas in the combustion chamber to escape.
- 3) Turn gas control knob counterclockwise so indicator points to the "PILOT" position. Depress the gas control knob fully. Depress the igniter button several times until the pilot lights. After approximately one minute, release the gas control knob. The pilot flame should continue to burn. If the pilot does not remain lit, repeat operation allowing a longer period before releasing gas control knob.

- When the pilot stays lit, turn the gas knob further counterclockwise to the "ON" position.
- 5) Use the thermostat or remote control to turn on the unit.
- 6) Rotate the flame height regulator to adjust the flame height higher or lower.



Operating Controls are located behind the bottom flip down panel.



SHUTDOWN PROCEDURE

- 1) Use the thermostat or remote control to turn off the main burner.
- Turn the main gas control clockwise to the "OFF" position to turn off the pilot (push knob in slightly).
- 3) Turn off all electric power to appliance if service is to be performed.

FIRST FIRE

The first fire in your stove is part of the paint curing process. To ensure that the paint is properly cured, it is recommended that you burn your fireplace for at least four (4) hours the first time you use it with the fan on.

When first operated, the unit will release an odour caused by the curing of the paint, the burning off of any oils remaining from manufac-

turing. Smoke detectors in the house may go off at this time. Open a few windows to ventilate the room for a couple of hours.

The glass panel may require cleaning after the unit has cooled down. **DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS HOT.**

DO NOT BURN THE APPLIANCE WITHOUT THE GLASS FRONT IN PLACE.

During the first few fires, a white film may develop on the glass front as part of the curing process. The<u>glass should</u> <u>be cleaned</u> or the film will bake on and become very difficult to remove. Use a non-abrasive cleaner and NEVER clean the glass while it is hot.

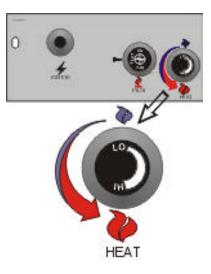
AUTOMATIC CONVECTION FAN OPERATION

The fan operates automatically - turn the knob at the top right rear corner to adjust to the desired speed. The fan will turn on as the stove comes up to operating temperature. After the unit has been turned off and the unit cooled to below a useful heat output range the fan will shut off automatically.

ADJUSTING FLAME HEIGHT

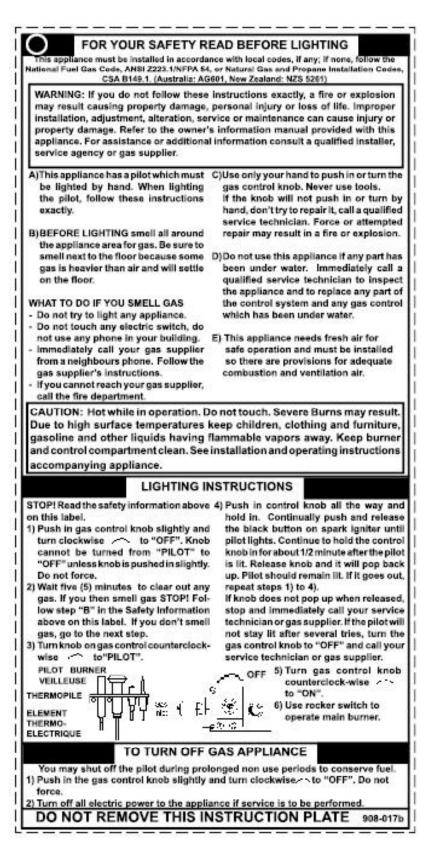
Your heater has an adjustable flame to tailor the look and heat output to your specific needs. It is adjusted by turning the flame adjustment dial on the gas control valve.

Turn counterclockwise to adjust the flame higher, clockwise for a lower flame.



OPERATING INSTRUCTIONS

COPY OF THE LIGHTING PLATE INSTRUCTIONS



NORMAL OPERATING SOUNDS OF GAS APPLIANCES

It is possible that you will hear some sounds from your gas appliance. This is perfectly normal due to the fact that there are various gauges and types of steel used within your appliance. Listed below are some examples. All are **normal operating sounds** and should not be considered as defects in your appliance.

Blower:

Waterford gas appliances use high tech blowers to push heated air farther into the room. It is not unusual for the fan to make a "whirring" sound when ON. This sound will increase or decrease in volume depending on the speed setting of your fan speed control.

Burner Tray:

The burner tray is positioned directly under the burner tube(s) and logs and is made of a different gauge material from the rest of the firebox and body. Therefore, the varying thicknesses of steel will expand and contract at slightly different rates which can cause "ticking" and "cracking" sounds. You should also be aware that as there are temperature changes within the unit these sounds will likely re-occur. Again, this is normal for steel fireboxes.

Blower Thermodisc:

When this thermally activated switch turns ON it will create a small "clicking" sound. This is the switch contacts closing and is normal.

Pilot Flame:

While the pilot flame is on it can make a very slight "whisper" sound.

Gas Control Valve:

As the gas control valve turns ON and OFF, a dull clicking sound may be audible, this is normal operation of a gas regulator or valve.

Unit Body/Firebox:

Different types and thicknesses of steel will expand and contract at different rates resulting in some "cracking" and "ticking" sounds will be heard throughout the cycling process.

MAINTENANCE

MAINTENANCE INSTRUCTIONS

- Always turn off the valve before cleaning. For relighting, refer to lighting instructions. Keep the burner and control compartment clean by brushing and vacuuming at least once a year. When cleaning the logs, use a soft clean paint brush as the logs are fragile and easily damaged.
- 2) Clean glass (never when unit is hot), appliance, and door with a damp cloth. Never use an abrasive cleaner.

The porcelain enamel finished stoves may be cleaned with ordinary household glass cleaner and a soft cloth or paper towel. Never clean when unit is hot and never use an abrasive cleaner.

3) The heater is finished in a porcelain finish or with a heat resistant paint and should only be refinished with heat resistant paint (not with wall paint). Waterford uses Stove-Bright Paint - Metallic Black #6309.

Never use an abrasive cleaner on the porcelain finish as it may scratch the surface.

- 4) Make a periodic check of burner for proper position and condition. Visually check the flame of the burner periodically, making sure the flames are steady; not lifting or floating. If there is a problem, call a qualified service person.
- 5) Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.
- 6) The appliance and venting system must be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed. During the annual service call, the burners should be removed from the burner tray and cleaned. Replace the embers but do not block the pilot.
- 7) Keep the area near the appliance clear and free from combustible materials, gasoline, and other flammable vapours and liquids.

CAUTION: ANY SAFETY SCREEN OR GUARD REMOVED FOR SERV-ICING AN APPLIANCE MUST BE REPLACED PRIOR TO OPERAT-ING THE APPLIANCE. WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SUR-FACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

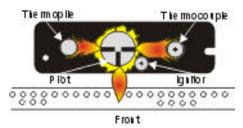
DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PART OF CON-TROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UN-DER WATER.

CLOTHING OR OTHER FLAMMA-BLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLI-ANCE.

8) Each time the appliance is lit, it may cause condensation and fog the glass. This condensation and fog is normal and will disappear in a few minutes as the glass heats up.

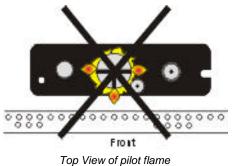
Never operate the appliance without the glass properly secured in place or with the door open.

- 9) Periodically check the pilot flames. Correct flame pattern has three strong blue flames:
 1 flowing around the thermopile and 1 around the thermocouple, and 1 flowing across the rear of the burner (it does not have to be touching the burner).
- Note: If you have an incorrect flame pattern, contact your Waterford dealer for further instructions.



Top View of pilot flame

Incorrect flame pattern will have small, probably yellow flames, not coming into proper contact with the rear of the burner or thermopile.



GENERAL VENT MAINTENANCE

Conduct an inspection of the venting system semi-annually. Recommended areas to inspect as follows:

- 1) Check the Venting System for corrosion in areas that are exposed to the elements. These will appear as rust spots or streaks, and in extreme cases, holes. These components should be replaced immediately.
- 2) Remove the Cap, and shine a flashlight down the Vent. Remove any bird nests, or other foreign material.
- 3) Check for evidences of excessive condensation, such as water droplets forming in the inner liner, and subsequently dripping out the joints, Continuous condensation can cause corrosion of caps, pipe, and fittings. It may be caused by having excessive lateral runs, too many elbows, and exterior portions of the system being exposed to cold weather.
- 4) Inspect joints, to verify that no pipe sections or fittings have been disturbed, and consequently loosened. Also check mechanical supports such as Wall Straps, or plumbers' tape for rigidity.

LOG REPLACEMENT

The unit should never be used with broken logs. Turn off the gas valve and allow the unit to cool before opening door to carefully remove the logs. The pilot light generates enough heat to burn someone. If for any reason a log should need replacement, you must use the proper replacement log. The position of these logs must be as shown in the diagram under Log Installation.

Note: Improper positioning of logs may create carbon build-up and will alter the unit's performance which is not covered under warranty.

MAINTENANCE

GLASS REPLACEMENT

Your TARA stove is supplied with high temperature, 5 mm Neoceram ceramic glass that will withstand the highest heat that your unit will produce. In the event that you break your glass by impact, purchase your replacement door from an authorized Waterford dealer only, and follow our step-by-step instructions for replacement.

Replacement Part # W260040 Tara Glass

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

Note: Wearing gloves will protect your hands while handling glass.

1) Remove the cast iron front panel, grasp it at the bottom and lift the panel upwards and out from the stove. Once free of the locating tabs, the panel can be dropped down: freeing it from the top of the stove.

Place the cast iron front panel on a nonabrasive surface, away from any traffic to ensure that it does not get damaged.

- 2) Remove the Front Glass Panel. Using a 7/16" socket wrench, remove the 6 hex head bolts used to secure the glass panel and frame to the stove. Remove the frame and glass panel.
- 3) Using a flat screwdriver, pry open the 4 retaining tabs holding the glass panel in place and remove the old glass.



4) Take the new glass and fit the 'tadpole' glass gasket around the edge of the glass.



- 5) Insert the glass (with gasket) in to the frame so that the 'bulb' portion of the gasket is exposed.
- 6) Using a flat screwdriver, close the 4 retaining tabs used to hold the glass in place.
- 7) Replace the Front Glass Panel on the stove and reinstall the Cast Iron Front Panel.



FAN MAINTENANCE

If your fan requires maintenance or replacement, access to the fan is through the rear access panel on the back of the unit. NOTE: the unit MUST NOT be operated without the fan access panel securely in place and correctly sealed.

IMPORTANT: These fans collect a lot of dust from within your home. Ensure you maintain these fan motors on a regular basis by vacuuming out the fan squirrel cages, around the motor, and around the grills on the back of the stove.



WARNING:

Electrical Grounding Instructions This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded threeprong receptacle. Do not cut or remove the grounding prong from this plug.

To remove fan: Follow the installation instructions on page 7 in reverse.

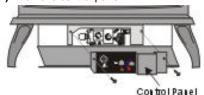


VALVE MAINTENANCE

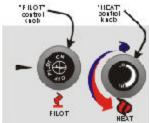
If your valve requires maintenance or replacement, use the following instructions.

Note: Always close off the gas supply before removing the valve.

- 1) If optional fan is installed, disconnect power source to stove.
- 2) Remove control panel.



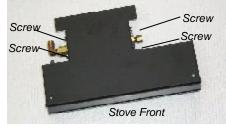
- Disconnect gas line to stove.
- 3) Disconnect 3/8" NPT pipe from 90° elbow 4) on valve.
- 5) Disconnect the two (2) switch wires from valve.



- 6) Disconnect piezo wire.
- Remove the cast iron front panel for easier 7) access.
- 8) Remove the 4 screws holding the gas valve assembly to the bracket.
- 9) Remove the thermopile wire. 10) Remove thermocouple with a 9 mm (metric) wrench.
- 11) Remove pilot nut with an 11 mm wrench.
- 12) Remove valve to orifice nut with a 13/16" wrench.
- 13) Remove inlet pipe with pipe wrench. Note orientation of 90° elbow.
- 14) Remove valve and remove gas out 90° brass fitting. Note orientation of fitting.

Installing Valve Assembly

- 1) To install a new valve assembly, reverse instructions for removing valve. See above.
- 2) Check for leaks and manifold pressure. See Gas Pressure Test instructions.



Valve Bracket with Valve - Top View

REPLACEMENT / SPARE PARTS LIST

	Part #	Description	
1) 2) 3) 4) 6) 8) 9) 10) 15) 16) 16) 18) 20) 21) 22) 23) 24) 25)	W260021** 280-022 W260040/P 41225 904-012 260350 290-015 280-020 260-037 910-241 * * 910-704 908-106 * W842051 W260090 * W942081**	Front Casting (Black) Door Glass Gasket for Glass Capscrew 1/4 x 1-3/4 NC Gasket for Rear Relief Plate Rear Blow Off Plate Rear Panel Rear Control Panel Burner Switch Cable Tie Mount Cable Tie High Temperature Wire Harness - to Power Rear Control Panel Decal Gasket of Inner Flue Adapter Gasket of Inner Flue Adapter Dura-Vent Collar Hob Shield Hob Casting (Black)	
30) 31)	W260260 942-117	Top Relief Plate Frame	15
32) 33)	W260280 290-021	Top Relief Plate Gasket	/
41) 42) 43)	W260061** W420011** *	Side Casting (Black) Leg (Black) Stove Base	
44) 45) 48) 49)	290-917 910-157/P 910-142 910-330 904-586	Optional Fan Assembly Complete Fan Motor (120 V) Thermodisc Fan Auto (ON/OFF) Fan Speed Control (120 V) Fan Control Knob 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
50) 53) 55) 58) 94) 95) 96) 99)	910-794 * 43801** 44801** * * 908-788	Power Cord (120 V) Fan Air Deflector Side Shelf (Black) Front Grill (Black) Capscrew 3/8 x 3/4" Zinc plated Washer 3/8 Flat Zinc Plated Levelling Bolt - 5/16 x 5/8 Hex Head Bolt 1/4 - 20 x 1/2 Hex Head Manual **Last digit of part no. represents colour code: 1=Black, 4=Blush, 5=B 7=Hunter Green, 8=Claret, 9=Forest Green	rown,

*Not available as a replacement part.

NOTES

WARRANTY



Waterford Fireplace Products are designed with reliability and simplicity in mind. In addition, our internal Quality Assurance Team carefully inspects each unit thoroughly before it leaves our facility. FPI Fireplace Products International Ltd. is pleased to extend this limited lifetime warranty to the <u>original</u> <u>purchaser</u> of a Waterford Product.

The Warranty: Limited Lifetime

External casting, not directly in contact with the fire, such as hobs, sides, ash lips, legs, fronts and fire doors, are covered against cracks and warps resulting from manufacturer defects, parts and subsidized labour* for three (3) years from the date of purchase and parts only thereafter.

The combustion chamber, heat exchanger, burner tubes/pans, logs, embers and all gold plating (against defective manufacture only) are covered under the Limited Lifetime Warranty for five (5) years for parts and subsidized labour* and parts only thereafter.

Glass is covered for lifetime against thermal breakage only, parts and subsidized labour* for three (3) years and parts only thereafter from date of purchase.

Electrical and mechanical components such as blowers, switches, wiring, thermodiscs, FPI remote controls, spill switches, thermopiles, thermocouples, pilot assembly components, and gas valves are covered for one year parts and subsidized labour* from the date of purchase. Blowers and valves replaced under warranty are considered repairs and continue as if new with appliance. ie. twelve (12) months from original purchase date of appliance with a minimum of three (3) months coverage from date of replacement.

FPI venting components are covered parts and subsidized labour* for three (3) years from date of installation and parts only thereafter.

Conditions:

Porcelain/Enamel - Absolute perfection is neither guaranteed nor commercially possible. Any chips must be reported and inspected by an authorized dealer within three days of installation. Reported damage after this time will be subject to rejection.

Any part or parts of this unit which in our judgement show evidence of such defects will be repaired or replaced at FPI's option, through an accredited distributor or agent provided that the defective part be returned to the distributor or agent <u>Transportation Prepaid</u>, if requested.

It is the general practice of FPI to charge for larger, higher priced replacement parts and issue credit once the replaced component has been returned to FPI and evaluated for manufacturer defect.

The authorized selling dealer is responsible for all in-field service work carried out on your Waterford product. FPI will not be liable for results or costs of workmanship from unauthorized service persons or dealers.

At all times FPI reserves the right to inspect product in the field which is claimed to be defective.

All claims must be submitted to FPI by authorized selling dealers. It is essential that all submitted claims provide all of the necessary information including customer name, purchase date, serial #, type of unit, problem, and part or parts requested, without this information the warranty will be invalid.

Exclusions:

This limited Lifetime Warranty does not extend to or include paint (charcoal units), porcelain (including pinholes, scratches and minor shade mismatch), door or glass gasketing or trim.

At no time will FPI be liable for any consequential damages which exceed the purchase price of the unit. FPI has no obligation to enhance or modify any unit once manufactured. ie. as products evolve, field modifications or upgrades will not be performed.

FPI will not be liable for travel costs for service work.

Installation and environmental problems are not the responsibility of the manufacturer and therefore are not covered under the terms of this warranty policy.

Refractory liners, gaskets, door handles, paint are not covered under the terms of this warranty policy.

Any unit which shows signs of neglect or misuse is not covered under the terms of this warranty policy.

The warranty will not extend to any part which has been tampered with or altered in any way, or in our judgment has been subject to misuse, improper installation, negligence or accident, spillage or downdrafts caused by environmental or geographical conditions, inadequate ventilation, excessive offsets, negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryer, etc.

Freight damage to stoves and replacement parts is not covered by warranty and is subject to a claim against the freight carrier by the dealer.

FPI will not be liable for acts of God, or acts of terrorism, which cause malfunction of the appliance.

Performance problems due to operator error will not be covered by this warranty policy.

Products made or provided by other manufacturers and used in conjunction with the operation of this appliance without prior authorization from Waterford, may nullify your warranty on this product.

Simpson Dura-Vent venting components are covered by Simpson Dura-Vent Inc. warranty.

* Subsidy according to job scale as predetermined by FPI.



Register your Waterford online at http://www.waterfordstoves.com

Installer: Please complete the following information		
Dealer Name & Address:		
Installer:		
Phone #:		
Date Installed:		
Serial No.:		

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