



---

# INSTALLATION & OPERATING INSTRUCTIONS FOR THE GARLAND® STARFIRE SENTRY COMBINATION RANGE, MODEL STW286A

## FOR YOUR SAFETY

DO NOT STORE OR USE GASOLINE OR OTHER  
FLAMMABLE VAPORS OR LIQUIDS IN THE  
VICINITY OF THIS OR ANY OTHER APPLIANCE.  
KEEP APPLIANCE AREA FREE AND CLEAR  
FROM COMBUSTIBLES.

## WARNING:

IMPROPER INSTALLATION, ADJUSTMENT,  
ALTERATION, SERVICE OR MAINTENANCE CAN  
CAUSE PROPERTY DAMAGE, INJURY OR DEATH.  
READ THE INSTALLATION, OPERATION AND  
MAINTENANCE INSTRUCTIONS THOROUGHLY  
BEFORE INSTALLING OR SERVICING  
THIS EQUIPMENT.

## WARNING: ELECTRICAL GROUNDING INSTRUCTIONS

THIS APPLIANCE IS EQUIPPED WITH A THREE-PRONG (GROUNDING) PLUG FOR YOUR PROTECTION  
AGAINST SHOCK HAZARD. IT SHOULD BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED THREE-  
PRONG RECEPTACLE. DO NOT CUT OR REMOVE THE GROUNDING PRONG FROM THIS PLUG

DO NOT OBSTRUCT THE FLOW OF COMBUSTION AND VENTILATION AIR TO THIS APPLIANCE.

PLEASE READ ALL SECTIONS OF THIS MANUAL AND RETAIN FOR FUTURE REFERENCE.

THIS PRODUCT HAS BEEN CERTIFIED AS COMMERCIAL COOKING EQUIPMENT AND MUST BE INSTALLED BY  
PROFESSIONAL PERSONNEL AS SPECIFIED.

## For Your Safety:

Post in a prominent location, instructions to be followed in the event the user smells gas.

This information shall be obtained by consulting your local gas supplier.



Users are cautioned that maintenance and repairs must be performed by a Garland authorized service agent using genuine Garland replacement parts. Garland will have no obligation with respect to any product that has been improperly installed, adjusted, operated or not maintained in accordance with national and local codes or installation instructions provided with the product, or any product that has its serial number defaced, obliterated or removed, or which has been modified or repaired using unauthorized parts or by unauthorized service agents. For a list of authorized service agents, please refer to the Garland web site at <http://www.garland-group.com>. The information contained herein, (including design and parts specifications), may be superseded and is subject to change without notice.

Continuous product improvement is a Garland policy, therefore design and specifications are subject to change without notice.

**GARLAND COMMERCIAL INDUSTRIES**  
185 East South Street  
Freeland, Pennsylvania 18224  
Phone: (570) 636-1000  
Fax: (570) 636-3903

**GARLAND COMMERCIAL RANGES,  
LTD.**  
1177 Kamato Road, Mississauga, Ontario L4W 1X4  
CANADA  
Phone: 905-624-0260  
Fax: 905-624-5669

**Enodis UK LTD.**  
Swallowfield Way, Hayes, Middlesex UB3 1DQ ENGLAND  
Telephone: 081-561-0433  
Fax: 081-848-0041



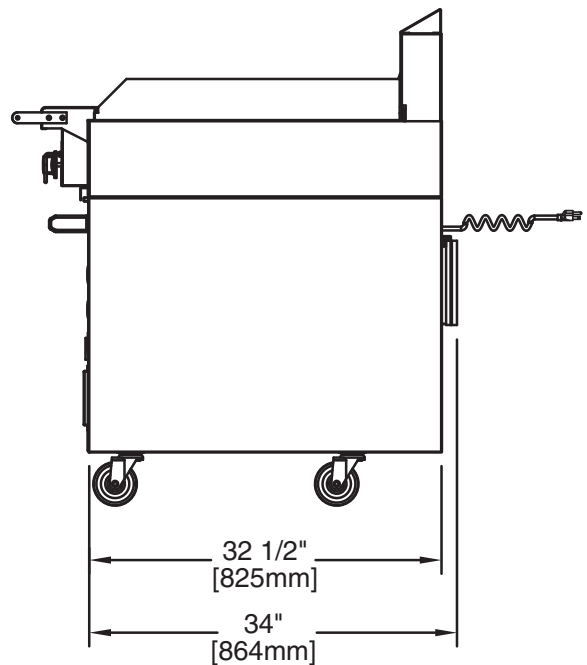
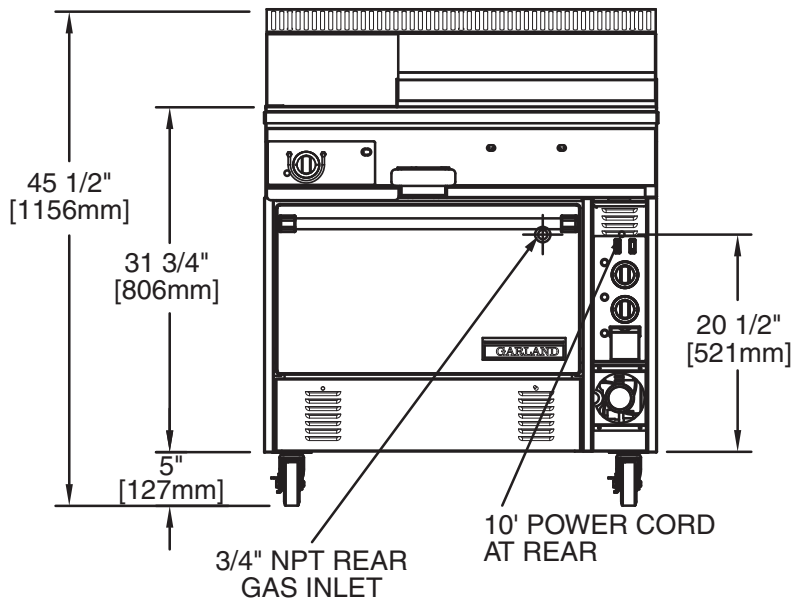
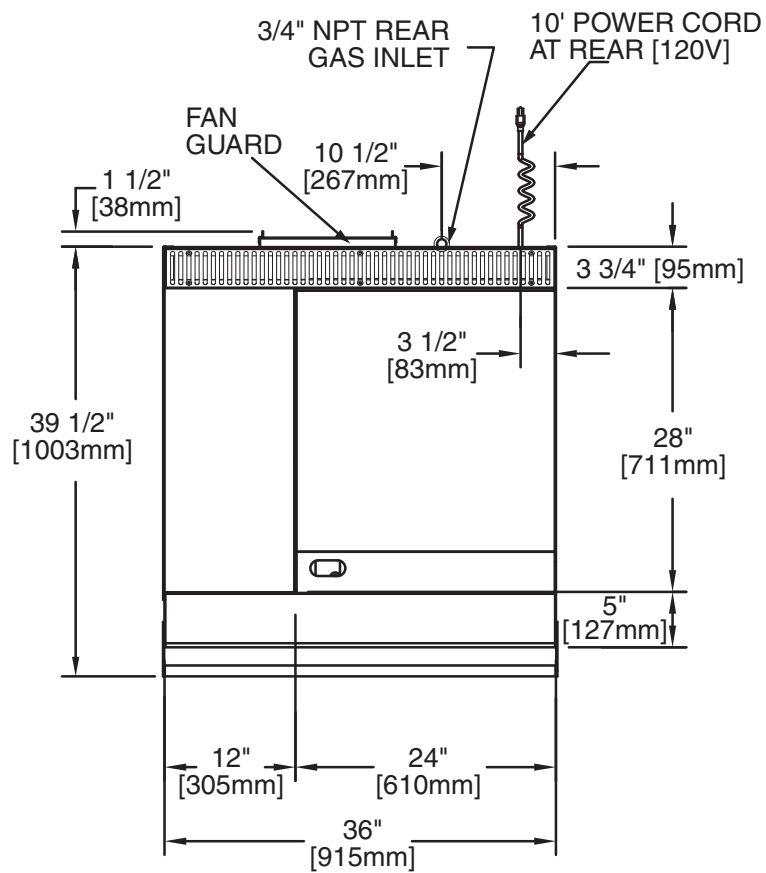
---

# TABLE OF CONTENTS

---

<b>DIMENSIONS</b> .....	4	Cleaning Burners .....	14
<b>SPECIFICATIONS</b> .....	5	Griddle / Solid Hot Plate .....	14
<b>INTRODUCTION</b> .....	5	Convection Oven .....	14
Unpacking: .....	5	Pilot Burner Cleaning .....	14
Rating Plate .....	6	Gas Valve .....	14
Safety .....	6	Thermostat Calibration .....	14
Product Usage .....	6	Oven .....	14
<b>INSTALLATION</b> .....	6	Griddle .....	15
General Information .....	6	Miscellaneous .....	16
Clearances .....	7	<b>CONVERSION INSTRUCTIONS</b> .....	16
Location .....	7	<b>FAULT FINDING</b> .....	17
Appliances Equipped with Casters .....	7	<b>REPLACEMENT OF PARTS</b> .....	18
Ventilation & Air Supply .....	7	Gas Taps .....	18
Gas Connection: .....	8	Door Switch .....	18
Commissioning: .....	9	Control Panel Rocker Switches .....	18
Burner Adjustments: .....	9	Thermostat .....	18
Griddle /Solid Hot Top Burner .....	9	Heat-On Lamp .....	18
Hot Top Minimum Flame Setting .....	9	Gas Control Valve .....	18
Oven Burner .....	9	Front Cooling Fan .....	19
<b>OPERATION</b> .....	10	Motor .....	19
Safety concerns .....	10	Ignition Control .....	19
Operation Controls .....	10	Hot Top Ignition Momentary Switch .....	19
Griddles .....	10	Hot Top Spark Generator .....	19
Preparing A New Griddle .....	10	<b>REPLACEMENT PARTS</b>	
Lighting The Griddle .....	11	<b>IDENTIFICATION</b> .....	20
Seasoning The Griddle .....	11	<b>WIRING DIAGRAMS</b> .....	28
Shut Down .....	11		
Solid Hot Tops (STW286A) .....	11		
Lighting The Solid Hot Top .....	11		
Oven .....	11		
Convection Oven .....	12		
Lighting the Oven .....	12		
Shut Down .....	12		
Operating Suggestions .....	12		
<b>MAINTENANCE &amp; CLEANING</b> .....	12		
Stainless steel .....	12		
Exhaust Filter .....	13		
Enameled/Painted Surfaces .....	13		
Griddle .....	13		
Cleaning instructions (After each use) .....	13		
Cleaning Instructions			
(For Heavy Build Up) .....	13		
Griddle Do's & Don'ts .....	13		

# DIMENSIONS



# SPECIFICATIONS

Oven Interior Dimensions			Entry Clearance		Installation Clearances		Shipping Weight	Manifold Inlet Size
Height	Width	Depth	Crated	Uncrated	Sides	Rear		
13-12" (343mm)	26-1/4" (667mm)	22" (559mm)	43" (1105mm)	37-7/8" (648mm)	7" (178mm)	6" (152mm)	584lbs. (265kg)	3/4" NPT Female

Input Ratings								Operating Pressure			
Hot Top		Griddle		Oven		Total		Natural		Propane	
BTU	KW	BTU	KW	BTU	KW	BTU	KW	"WC	mbar	"WC	mbar
25,000	7.32	50,000	14.65	30,000	8.79	105,000	30.76	4.5	11	10	25

NOTE: Installation clearance reductions are applicable only where local codes permit.

**This product is not approved for residential use.**

Commercial cooking equipment requires an adequate ventilation system. For additional information, refer to the National Fire Protection Association's standard NFPA96.

# INTRODUCTION

This equipment must be installed and adjusted by a competent person in accordance with the law. Failure to install appliances correctly could lead to prosecution. It is in your own interests and that of safety to ensure that the law is complied with. Your Garland Dealer is well qualified to provide this service.

This appliance should be given regular care and maintenance. Periodic inspections by the dealer or a qualified service company are recommended to check temperature, burner adjustments and to ensure moving parts are operative. Wherever possible avoid overheating idle equipment as this is the primary cause of increased service cost.

“Regular maintenance ensures peak performance.”

## Unpacking:

1. Check crate for possible damage sustained during transit. Carefully remove unit from crate and again check for damage. Any damage to the appliance must be reported to the carrier immediately.

2. The wires for retaining the burners and other packing material must be removed from units. Any protective material covering stainless steel parts must also be removed.
3. All ranges are shipped from the factory with casters fitted.
4. The type of gas and the supply pressure that the equipment was set up for at the factory is noted on the data plate and on the packaging. This type of gas supply must be used.
5. Do not remove permanently affixed labels, warnings or data plates from the appliance, for this may invalidate the manufacturer's warranty.

NOTE: Many parts of the equipment are raw steel i.e griddle top and solid hot top and can react with moisture forming rust. This is normal and not considered a defect. Clean with a stainless steel fiber pad. A light coating of salt free oil may be applied to prevent further rusting.

---

## INTRODUCTION continued

---

### Rating Plate

---

All burner input ratings are shown on the name/rating plate of each range which can be located behind the lower front kick panel, (located below oven door). To access, remove two (2) fasteners securing the panel shut.

For proper operation, the fuel information on the data plate of your new equipment must match your fuel supply.

When corresponding with the factory or equipment dealer regarding service problems or replacement parts, be sure to refer to the particular unit by the correct model number, including prefix and suffix letters and numbers and serial number. The rating plate affixed to the unit contains this information.

### Safety

---

It is essential that the instructions in this booklet are strictly followed for the safe and economical operation of the equipment. If it is known or suspected that a fault exists on the appliance then it must not be used until the fault is rectified by a competent person.

**Power Failure Note:** In the event of a power failure, no attempt should be made to operate the oven. The oven is gas operated but has electrical features, motor and door switches.

### Product Usage

---

The top of the range is designed for flexibility and the preparation of numerous types of products.

Preparation of soups, stocks and sauces are done on a hot top where slow even cooking is desirable. Heating larger quantities of food can be done more efficiently than heating small quantities. Pots and pans should be covered whenever possible to reduce energy consumption.

High acid sauces, such as tomato should be cooked in stainless steel vessels rather than aluminum since stainless will not react chemically. Light coloured sauces may be discoloured by the aluminum especially if stirred with a metal spoon. Salty water may pit aluminum vessels if used frequently.

---

## INSTALLATION

---

### General Information

---

Before assembly and connection, check gas supply.

- The type of gas for which the unit is equipped is stamped on the name/rating plate. Connect a unit stamped "NAT" only to natural gas, and a unit stamped "PRO" only to propane.
- In a new installation, have the gas authorities check meter size and piping to ensure that the gas supply will deliver sufficient pressure to operate the unit properly.
- When adding or replacing equipment, have gas authorities check gas pressure to ensure that the

existing meter and piping will supply fuel to the appliance with no more than 0.5 inch water column pressure drop during operation

- Before turning on the main gas supply, check the unit to be certain that all the controls are in the "OFF" position.
- When checking gas pressure, be sure that all other equipment on the same gas line is turned "ON." A preset gas pressure regulator is supplied with GARLAND Restaurant Series Equipment. It may be necessary to adjust the regulator to deliver fuel at the pressure shown on the rating plate.

---

## INSTALLATION continued

---

- In Canada, the installation must comply with local codes, or in the absence of local codes, with the Installation Codes for Gas Burning Appliances and Equipment CAN/CGA-B149.1 and CAN/CGA B149.2, (latest edition), and with the Canadian Electrical Code C22.1 (latest edition).

In the United States the installation must comply with the National Fuel Gas Code ANSI Z223.1, (latest edition), NFPA No. 54, (latest edition), and the National Electrical Code ANSI/NFPA 70, (latest edition), and/or local codes to ensure a safe and efficient operation.

- This equipment must be electrically grounded in accordance with local codes, or in the absence of local codes, with National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.2, as applicable.
- The appliance and its individual shut-off (supplied by others) must be disconnected from the gas supply piping system during any pressure testing of the system at pressures in excess of 1/2 PSIG (3.45 KPA). The appliance must be isolated from the gas supply piping by closing its individual manual shut-off (supplied by others) during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 PSIG (3.45 KPA).
- Adequate clearance must be provided for servicing and proper operation.

### Clearances

Minimum installation clearance to adjacent combustible walls and type of floor or base:

MINIMUM CLEARANCES STW286A	
LOCATION	CLEARANCE
Left Hand Side	7" (178mm)
Right Hand Side	7" (178mm)
Rear	6" (152mm)
TYPE OF FLOOR OR BASE	
Combustible	

### Location

The range should be installed on a firm, smooth and level floor designed to withstand the weight of the fully laden appliance. Any openings in the wall beside the appliance should be sealed.

### Appliances Equipped with Casters

- The installation shall be made with a connector that complies with the Standard for Connectors for Moveable Gas Appliances, ANSI Z21.69/CGA 6.16, (latest edition), addenda Z21.69a-1989, and a quick-disconnect device that complies with the Standard for Quick Disconnects for Use with Gas Fuel, ANSI Z21.41/CAN1 6.9, (latest edition).
- The front casters on the appliance are equipped with brakes to limit the movement of the appliance without placing any strain on the connector or quick disconnect device or its associated piping.
- Be aware; required restraint is attached to a bracket, which is located on the rear caster closest to the gas connection. If disconnection of the restraint is necessary, be sure to reconnect the device after the appliance is returned to its original position.

### Ventilation & Air Supply

The area in which the appliance is installed must be adequately ventilated to provide air for combustion, removal of products of combustion and removal of steam, etc. Proper ventilation is essential for optimum performance.

The ideal method of ventilating equipment is the use of a properly designed canopy which should extend six inches, (152mm), beyond all sides of the appliance(s) and six feet, six inches, (1981mm), above the floor.

A strong exhaust will create a vacuum in the room. For an exhaust vent to work properly, replacement air must enter the room. The amount of air that enters must equal the amount exhausted. All gas burners and pilots need sufficient air to operate. Large objects should not be placed in front of the appliance(s) which would obstruct the flow of air into the front.

## INSTALLATION continued

### Gas Connection:

The gas pipe connection is made at the rear right hand side of the equipment. The size of the pipe work supplying the appliance must not be less than the inlet connection

which is 3/4" NPT. An isolating valve is recommended to be close to the appliance to allow shut down during an emergency or routine servicing. After installation, the complete pipe work must be checked for soundness.

**TABLE A. Gas Flow Rate (total)**

NATURAL GAS ( ft <sup>3</sup> /h )	PROPANE GAS (ft <sup>3</sup> /h )
105	42

**TABLE B. Heat Input Per Burner**

BURNER	NOMINAL HEAT INPUT					
	NATURAL GAS			PROPANE		
	kW	BTU/HR	MJ/HR	kW	BTU/HR	MJ/HR
GRIDDLE	7.32	25,000	26.37	7.32	25,000	26.37
HOT TOP	7.32	25,000	26.37	7.32	25,000	26.37
OVEN	8.79	30,000	31.65	8.79	30,000	31.65

**TABLE C. Manifold Pressure / Injector Size**

BURNER	NATURAL GAS				PROPANE			
	Manifold Pressure		Injector Size		Manifold Pressure		Injector Size	
	mbar	"W.C.	DMS	mm	mbar	"W.C.	DMS	mm
GRIDDLE	11.2	4.5	42	2.4	25	10	53	1.51
HOT TOP	11.2	4.5	41	2.45	25	10	—	1.5
OVEN	11.2	4.5	35	2.8	25	10	51	1.7

NOTE: The pressure must be measured at the pressure test nipple located on the main manifold, located at the left hand front of the range where the hot top valve is situated, with all burners lit.

**TABLE D. Adjustment Pressure for “MIN” Valve Position (Hot Top section)**

NATURAL GAS		PROPANE	
mbar	"w.c.	mbar	"w.c.
2.0	0.8	4.5	1.8

NOTE: The pressure must be measured at the test nipple located downstream of the gas valve.

**TABLE E. Aeration Shutter Setting / Pilot Flame Length**

BURNER	SHUTTER OPENING				PILOT FLAME LENGTH	
	NATURAL GAS		PROPANE			
	mm	Ins.	mm	Ins.	mm	Ins.
OVEN	19	0.750	19	0.750	25.4	1
GRIDDLE	41.3	1.625	41.3	1.625	25.4	1
HOT TOP	41.3	1.625	41.3	1.625	12.5	0.5



## INSTALLATION continued

### Commissioning:

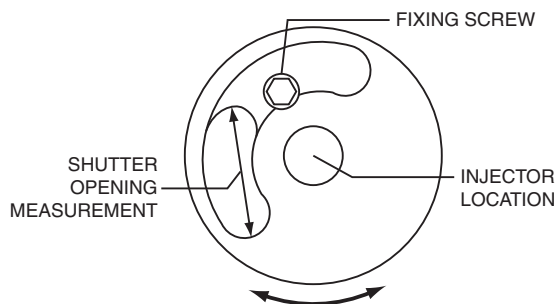
The whole of the gas installation, including the meter, should be inspected, purged and tested for leakage in accordance with local codes.

1. Ensure that all controls are in the off position and turn on the main gas supply and electrical mains.
2. Remove the screws securing the front fascia and connect a U-gauge manometer to the pressure test point on the main manifold. Operate the main burners in accordance with the instructions given in the User's manual.
3. Check that the setting pressure is correct per TABLE C on the previous page. If necessary, adjust the pressure governor located at the rear of the range, downstream of the shut-off valve, to give the required setting.

### Burner Adjustments:

#### Griddle /Solid Hot Top Burner

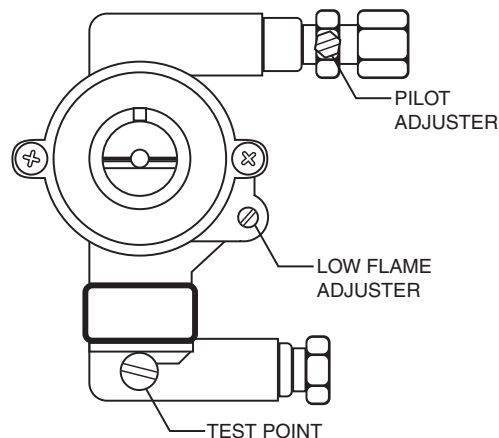
Check that the aeration shutter is set to provide the required opening per table E on the previous page. Adjust if necessary.



#### Hot Top Minimum Flame Setting

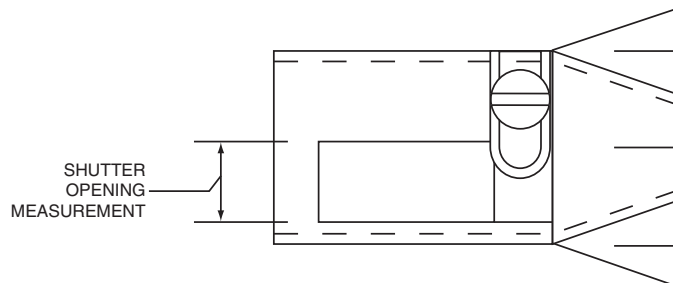
1. Set the gas tap to the MIN position.
2. Connect a U-gauge manometer to the pressure test nipple located downstream of the gas tap.

3. With a flat screwdriver, turn the adjuster on the body of the tap clockwise to reduce the pressure or anti-clockwise to increase pressure. Set the pressure to correspond with table D.



#### Oven Burner

1. Check that the aeration shutter is set to the required opening per table E. Adjust if necessary.



When all the settings have been checked, remove the U-gauge manometer, replace the pressure test point screw and the lower front panel.

Instruct the user or purchaser in the efficient and safe operation of the appliance.

Tell the user of the location of the gas isolation cock for use in an emergency. Leave this User Installation and Servicing Instruction Manual with the user or purchaser.

---

# OPERATION

---

## Safety concerns

It is the responsibility of the supervisor or equivalent person to ensure that users of this equipment wear suitable protective clothing and draw attention to the fact that some parts will by necessity become very hot and will cause burns if touched accidentally.

## Operation Controls

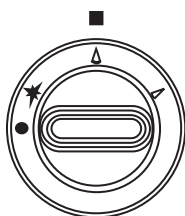
### SOLID TOP (STW286A)



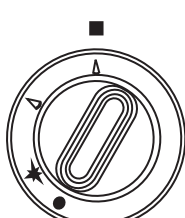
OFF



IGNITION

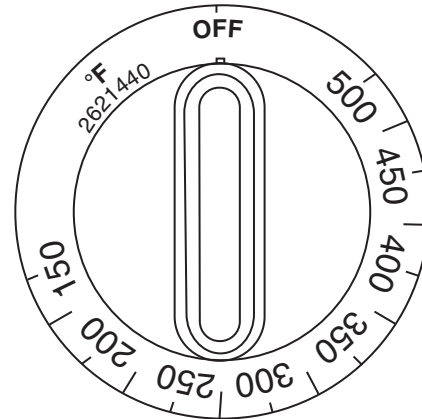


FULL FLAME



LOW FLAME

### OVEN/GRIDDLE TOP



## Griddles

Griddle tops are designed to have food cooked directly on the surface. Do not put pots or pans on the griddle surface as this will scratch or nick the surface and will result in improper cooking or sticking of the product. Never salt food over the griddle since this will build up a gummy residue making it difficult to clean.

Avoid hitting the surface of the griddle with the edge of a spatula since this will cause nicks. The most frequently used temperatures are 300° F (149°C) to 350° (177°C). After one firing, the griddle plate will discolour, this is normal and will not affect cooking performance.

Check the grease container and drain frequently during heavy use to prevent overflow.

## Preparing A New Griddle

1. Remove the protective coating on the surface using a mild detergent.
2. Thoroughly rinse the griddle with vinegar and a water solution (3/4 cup vinegar per quart of water) and dry.

---

## OPERATION continued

---

### Lighting The Griddle

NOTE: Ensure that the gas and electrical supply to the appliance are turned “ON”. During the initial ignition cycle, air must be purged from the gas line and thus it may take two or three tries for ignition to occur.

1. Turn the power switch to the “ON” position.
2. Set the thermostat to the desired temperature.
3. If ignition fails and /or the ignition system goes into lockout, set the power switch to the “O” position.
4. Wait five minutes and repeat steps 1 and 2. If the problem persists have the unit checked by a competent service technician.

### Seasoning The Griddle

1. Use a clean cloth, rub a thin and even layer of oil into the griddle surface. Oil should be an unsalted shortening or high temperature cooking oil.
2. Set the griddle thermostat to 131°F (55°C) and heat the griddle surface until the oil begins to caramelize (turn a golden brown colour). Once this occurs, turn the thermostat to “O”.
3. Scrape off the caramelized oil with a standard spatula.
4. Repeat step 1 and set the griddle thermostat to 275°F (135°C).
5. Repeat steps 2 & 3. The griddle is now seasoned and ready for use.

### Shut Down

1. Set the thermostat to the lowest setting and turn the power switch to the “O” position.

### Solid Hot Tops (STW286A)

Recommended where long term stock pot cooking is required for soups, sauces or stocks. Pots can be placed anywhere on the hot top. The maximum recommended stockpot size is 12” (305mm) in diameter

The recommended pre-heat time is 30 minutes. This will thoroughly saturate the plate. Pots must have flat bottoms for maximum contact with the hot surface. Roasting pans with straps should never be used on a top since only the straps touch the surface and heat transfer will be minimal.

### Lighting The Solid Hot Top

1. Push in the tap and turn it anti-clockwise to the ignition position “★”
2. Holding the tap fully in, depress the ignitor switch button and observe that the pilot lights. If it does not, depress the ignitor switch button until it does.
3. When the pilot is lit, continue to hold the tap for 20 seconds, then release it. If the pilot extinguishes or fails to hold, wait five (5) minutes and then repeat step 1.
4. When the pilot is established, push the tap in again and turn it anti-clockwise to the full flame position “△” thus lighting the main burner.
5. For low flame or simmer, push the tap in again and turn it anti-clockwise to the low flame “△” position.
6. To shut the burner off, turn the dial to the “●” position and the safety device will disengage within 60 seconds.

### Oven

The temperature is automatically controlled by the thermostat so that satisfactory cooking can be repeated. For the best performance the following instructions should be followed.

GRID SHELVES – There are three shelf positions. The shelf position is governed by the size of the product to be cooked. Always push the shelf back into the oven until it stops by making contact with the rear of the oven.

TRAY SIZE – A cake tray may be used on each shelf. Single trays or dishes must not be allowed to overhang the shelf in any direction, since this will adversely affect the heat circulation.

---

## OPERATION continued

---

**PREHEAT TIME** – Allow at least 45 minutes after turning the oven on from cold, with the thermostat at the desired temperature before loading the oven with food to be cooked. Put the food in quickly and close the oven door.

### Convection Oven

The forced air range oven consists of a food preparation chamber completely sealed from the combustion area. This permits an efficient method of circulating the heated air within the cooking chamber.

### Lighting the Oven

**NOTE:** Ensure that the gas and electrical supply to the appliance are turned “ON”. During the initial ignition cycle, air must be purged from the gas line and thus it may take two to three tries for ignition to occur.

- 1 Turn the power switch to the “ON” position and the Cook/cool switch to the “COOK” position.
- 2 Set the thermostat to the desired position.
3. If ignition fails and or the ignition system goes into lockout, set the power switch to the “O” position.

4. Wait five minutes and repeat steps 1 and 2. If a problem persists have the unit checked by a competent technician.

### Shut Down

1. Set the thermostat to the lowest setting and turn the power switch to the “O” position.

### Operating Suggestions

---

1. Turn the power switch to the “O” position when the range is not in use.
2. Clean the range as soon as possible after cooking tomato or vinegar based products that have a high acid content. These foods can cause pitting of the surface.
3. Allow the oven to preheat before adding product.
4. During an electrical power interruption, turn the power switch to the “O” position. The oven cannot be made to operate without electrical power

---

## MAINTENANCE & CLEANING

---

Regular servicing by a competent person is recommended to ensure the continued safe and efficient performance of the appliance. The frequency will vary, depending on the installation conditions and usage. Usually once per year is adequate

**WARNING:** Turn off the gas supply to the appliance at the service cock and the electrical mains before commencing any servicing work.

**IMPORTANT:** Test for gas leakage on completion of any servicing work.

A regular cleaning schedule should be established to ensure efficient operation.

**WARNING:** This appliance is not protected against water jets. Do not clean with water jets.

### Stainless steel

---

Stainless Steel should be cleaned using a mild detergent, a soft cloth and hot water. If it is necessary to use a non-metallic scouring pad, always rub in the direction of the grain in the metal to prevent scratching. Wash a small area at a time and rinse the washed area with a clean sponge dipped into a disinfectant and wipe dry with a soft clean cloth before it can dry.

---

## MAINTENANCE & CLEANING continued

---

Use only stainless steel, wood or plastic tools to scrape off heavy deposits of grease or oil. Do not use ordinary steel scrapers or knives as particles of iron may become embedded and rust. NEVER USE STEEL WOOL.

### **Exhaust Filter**

Inspect the front exhaust filter weekly, if on inspection the filter appears dirty it can be cleaned by hand with hot water and dish detergent. The filter is easily removed by sliding out of the lower front panel of the unit.

### **Enameled/Painted Surfaces**

Establish a regular cleaning schedule. Any spills should be wiped off immediately. The unit should be allowed to cool down before cleaning any exterior surfaces. Wipe exposed cleanable surfaces when cool with mild detergent and hot water. Stubborn residue spots may be removed with a scouring pad. Dry thoroughly with a clean cloth.

### **Griddle**

#### **Cleaning instructions (After each use)**

1. Use a traditional 2.5"-3" (64mm-76mm) scraper or spatula to scrape the griddle surface (to remove food particles and oil residues) towards the grease trough using even back to front strokes.
2. Pour shortening or oil onto the griddle surface using a straight front to back motion. Clean the griddle using a griddle stone or grill screen. Always wipe with the grain of the steel, never sideways.
3. Using a clean cloth, rub a thin and even layer of oil into the griddle surface.
4. Remove the grease drawer, empty and wash thoroughly with soap and water. Replace.

#### **Cleaning Instructions (For Heavy Build Up)**

NOTE: After using cleaners & grease cutter, re-season the griddle

NOTE: Apply to a warm griddle for best results.

1. Using a traditional 2.5"-3" (64mm-76mm) scraper or spatula scrape the griddle surface (to remove food particles and oil residues) towards the grease trough using even back to front strokes.
2. Apply griddle cleaner evenly over the griddle surface and let it sit as directed. Follow the procedures on the label of the specific cleaning product.
3. Using a traditional scraper or spatula, sash around the griddle cleaner to remove the build up.
4. Scrape the griddle surface towards the grease-trough using even back to front strokes. Repeat step 2 if necessary.
5. Using a mild detergent, clean the surface and rinse thoroughly with water and vinegar solution, Dry the griddle.
6. Using a clean cloth rub a thin and even layer of oil into the griddle surface.
7. Re-season the griddle as detailed in griddle operation. The griddle is now ready for use.

#### **Griddle Do's & Don'ts**

##### **Do's**

1. Season the griddle, This will prevent foods from sticking and make it easier to keep the surface clean.
2. Keep the surface clean. Scraping the surface throughout production to clear foods and oils prevents build up and will make it easier to keep the surface clean.
3. Turn the temperature down during slow periods. Reducing the temperature or turning sections off during slow periods will conserve energy and prevent the plate from over heating.

##### **Don'ts**

1. Do not use salt to clean the griddle surface. Salt is corrosive and can cause pitting of the griddle.

---

## MAINTENANCE & CLEANING continued

---

2. Do not allow metal utensils (Spatula, scraper, etc.) to nick and/or dent the surface of the griddle. The edges of these utensils are sharp and will create divots that oil can collect in and caramelize which will cause sticking.
3. Do not use the griddle as a hot top. A large pan or pot will trap heat and cause the griddle plate to warp.
4. Do not overheat the griddle to preheat faster. Preheating takes 15-20 minutes.

### Cleaning Burners

---

#### Griddle / Solid Hot Plate

1. Lift off the griddle plate or solid hot top. Use caution: This will require assistance due to the weight of the griddle / solid hot top.
2. Lift the rear of the burner and slide backwards off the injector fitting.
3. Clean the burners in hot soapy water with a stiff scrubbing brush.
4. Rinse and shake well to remove any debris.
5. Reassemble in the reverse order.

#### Convection Oven

1. Open the lower kick panel.
2. Remove the left & right hand oven door springs. **USE CAUTION:** the oven door will need additional support to remain closed.
3. Remove the left and right hand radiation shields.
4. Remove the two (2) screws that secure the pilot bracket and disconnect the pilot tubing at the union connection.
5. Remove the injector support and slide the burner and burner pan forwards out of the combustion chamber.

6. Clean the burner with a stiff scrubbing brush and shake the burner well to ensure that ports are clear of any debris.
7. Reassemble in the reverse order.

### Pilot Burner Cleaning

1. Remove the main burners (refer to the section on main burner cleaning).
2. Disconnect the pilot gas supply pipe from the pilot jet.
3. Remove the pilot jet.
4. Clean by blowing through or washing. Do not use wire to clear the pilot jet.
5. Reassemble in the reverse order.

### Gas Valve

---

Re-greasing of the gas taps is not recommended. If the tap spindle becomes seized or difficult to turn, refer to Replacement of Parts section in this manual.

### Thermostat Calibration

---

#### Oven

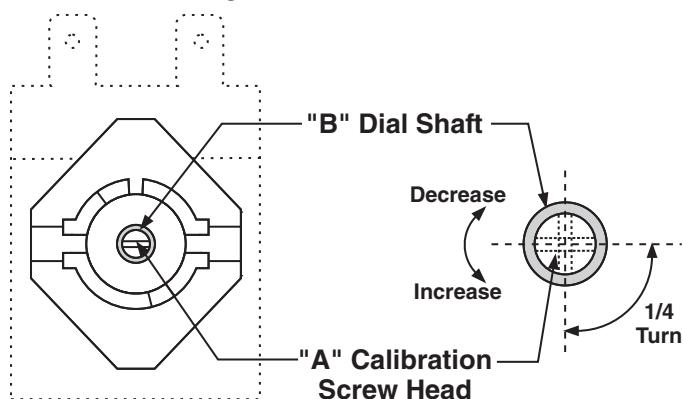
It is normal for a hydraulic thermostat cycling with a temperature differential of 45° to 50°F. If the thermostat is cycling beyond the 15° tolerance above or below the set point and the appliance is under warranty, recalibrate the thermostat or if not under warranty, consult owner for proper action. If the thermostat is out of calibration more than 50°, it will not likely hold an attempt of recalibration. We suggest that the thermostat be replaced.

1. Place the thermocouple of the test instrument in the center of the oven.
2. Turn the oven temperature control dial to 400°F. In order to allow the oven temperature to stabilize, the oven control must be allowed to cycle twice before taking a test reading.



## MAINTENANCE & CLEANING continued

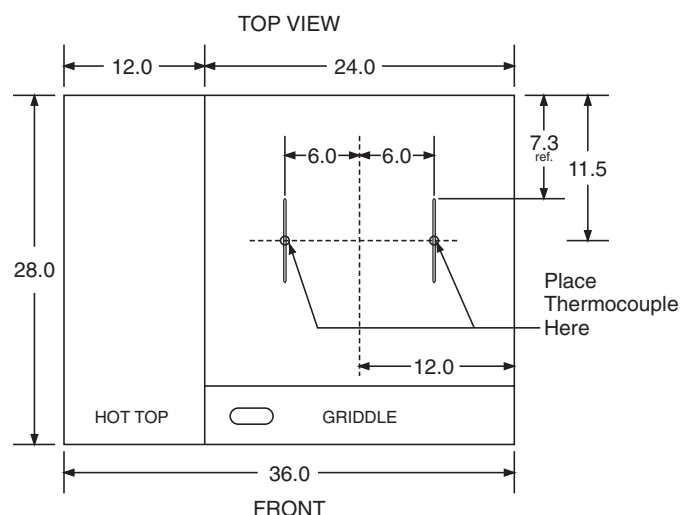
3. Check the temperature reading just when the control cycles "OFF" as indicated by cycling pilot lamp. If the temperature does not read within 15°F of the dial setting, recalibrate as follows:
4. Carefully remove the thermostat dial, not disturbing the dial setting.



5. Hold the thermostat shaft steady and with a small flat blade screw driver, turn the calibration screw located inside the shaft clockwise to decrease the temperature and anti-clockwise to increase the temperature. Note: Each 1/4 turn of the screw will create a change of approximately 25°F.
6. Replace the thermostat dial and repeat steps 1 through 3 to verify that correct adjustment has been made.

### Griddle

1. Use a test instrument with a special disc type thermocouple or a reliable surface type pyrometer. Note: a drop of oil on the face of the disc will provide better contact with the plate.
2. Set all griddle thermostats to 300°F. In order to allow the griddle temperature to stabilize, the thermostats must be allowed to cycle twice before taking a test reading.



*To find the location of the sensing bulbs, locate the exact center of the griddle. Measure 6" to the left and 6" to the right. Place the temperature sensor there.*

3. Check the griddle temperature when the thermostat just cycles "OFF" by placing the thermocouple firmly on the griddle surface directly above the sensing bulb of the thermostat. (see the following diagram for how to find the location directly above the thermostat sensing bulb) The reading should be between 285°F and 315°F. If the reading is outside of these limits, calibrate as follows:
4. Carefully remove the thermostat dial, not disturbing the dial setting.
5. Hold the thermostat shaft steady and with a small flat blade screw driver, turn the calibration screw located inside the shaft clockwise to decrease the temperature and anti-clockwise to increase the temperature. Note: Each 1/4 turn of the screw will create a change of approximately 25°F.
6. Replace the thermostat dial and repeat steps 1 through 3 to verify that correct adjustment has been made.

---

## MAINTENANCE & CLEANING continued

---

### Miscellaneous

---

1. Grease the door hinges and check for loose fasteners. Tighten as necessary.
2. Wire brush the surface of the griddle to remove baked on material, wash with hot water, dry thoroughly. Lightly coat the surface with vegetable oil to prevent rusting.
3. Wipe exposed cleanable surfaces with a mild detergent and hot water. Stubborn residue may be removed with a lightweight non-metallic scouring pad. Stainless steel areas should be washed with a mild detergent, hot water and a soft cloth. If necessary to use a non-metallic scouring pad always rub in the direction of the grain in the metal to prevent scratching. NEVER USE STEEL WOOL.
4. Check the operation of the flame safety device by closing the gas supply during burner operation. Listen for the flame failure valve on the combination gas control “clicking” closed. This action must occur within 1 second of extinguishing the main burner flame.
5. Clean the oven racks, shelves and guides with hot soapy water and dry thoroughly. Clean the oven interior with a propriety oven cleaner following the manufacturers instructions.

---

## CONVERSION INSTRUCTIONS

---

Servicing must be carried out by a competent person in accordance with the law.

**WARNING:** Turn off the gas supply to the appliance at the service cock and the electrical mains before commencing any servicing work.

**IMPORTANT:** Test for gas leakage on completion of any servicing work.

The following instructions are intended to describe the operations necessary to convert equipment from operation on one gas to another.

1. Ensure that all of the parts necessary to make the conversion have been supplied as follows:
  - a. Injector fittings ( One required for each main burner & one required for each pilot)
  - b. Regulator, (one per unit )

If any of the required parts are missing, contact your Garland dealer before attempting to carry out the conversion.

2. Remove the burners following the instructions given in this manual.
3. Replace each injector fitting with the new fitting that is supplied.

**NOTE:** Before doing so, refer to Table C in this manual to ensure that the correct injector has been supplied for the gas supply being converted to.

4. Replace the spring in the governor with the new spring supplied.

Upon completion of all the above operations, follow the section in the manual on “Commissioning” and ensure that the setting pressure and all burner flame settings are adjusted accordingly.



# FAULT FINDING

PROBLEM	POSSIBLE CAUSES	SOLUTION
Cook/Cool Down switch set to "Cook" position. Light off. Motor not working.	No power to oven.	Check power supply.
	Defective Cook/Cool Down switch	Replace switch.
	Faulty wiring.	Check condition of all wires & connections
	Defective door switch.	Replace switch
Cook/Cool Down switch set to "Cook" position. Light on motor not working.	Oven door partially open.	Close door.
	Door switch out of alignment.	Align switch.
	Defective motor.	Replace motor.
	Faulty wiring.	Check condition of all wires & connections
	Faulty motor relay	Replace relay
Cook/Cool Down switch set to "Cook." Motor working thermostat set to temperature, lamp "on," oven not heating.	Combination gas valve not opening.	Defective thermostat replace.
	Defective valve/thermostat	Replace valve/thermostat.
Noisy convection oven.	Blower wheel rubbing on oven baffle	Adjust blower wheel.
	Blower wheel loose on motor shaft.	Retighten blower wheel.
	Defective motor	Replace motor.
Cook/Cool Down switch set to "Cool Down", motor not working.	Defective Cook/Cool down switch.	Replace switch.
	Defective door switch.	Replace switch.
	Door switch out of alignment.	Align switch.
	Faulty wiring.	Check condition of all wires & connections
Oven too hot or not hot enough	Thermostat out of calibration.	Check calibration/replace thermostat.
No spark to igniter	Disconnected or loose hi voltage wires.	Reconnect hi voltage wires.
	Defective DSI control module.	Replace DSI module
	No power to oven	Check power supply.
Spark to igniter, thermostat set to temperature. Burner does not go on.	Defective combination gas valve.	Replace valve.
	Defective thermostat controller.	Replace controller
Oven doors will not stay closed.	Broken or damaged door spring	Replace door spring

Wiring Diagrams can be found at the end of this manual. A relevant schematic can be found on the inside of the control panel when it is slid out for service.

---

## REPLACEMENT OF PARTS

---

**WARNING:** Turn off the gas supply to the appliance at the service cock and the electrical mains before commencing any servicing work.

**IMPORTANT:** Test for gas leakage on completion of any servicing work.

### **Gas Taps**

---

1. Pull the knob off of each gas tap and thermostat on the unit.
2. Remove the screws securing the fascia panel and remove panel and grease drawer.
3. Remove the appropriate burner (if necessary) following the procedure given in the section on Main Burner Cleaning.
4. Disconnect the thermocouple connection at the gas tap.
5. Disconnect the pilot and main burner tubing connections at the gas tap.
6. Disconnect the tubing connection at the inlet of the gas tap and remove the tap.
7. Replace with the new tap.
8. Reassemble in the reverse order.

### **Door Switch**

---

1. Remove the lower kick panel.
2. Disconnect the wires from the terminals on the body of the switch.
3. Remove the screws securing the door switch to the mounting bracket and remove the door switch.
4. Replace the faulty door switch.
5. Make certain that the newly installed door switch is properly adjusted so as to interrupt the power supply to the gas control system and fan motor when the oven doors are opened.

### **Control Panel Rocker Switches**

---

1. Remove the fastener securing the control compartment access panel.

2. Slide out the control drawer to access the switch.
3. Disconnect the wires from the taps on the switch. Be sure to note which wire connects to which terminal on the switch.
4. Depress the tabs of the switch body and push the switch through the opening in the control panel.
5. Replace the switch and reassemble in the reverse order.

### **Thermostat**

---

1. Remove the fastener securing the control compartment access panel.
2. Slide out the control drawer to access the thermostat.
3. Remove the dial from the thermostat and the screws securing the thermostat body to the control panel.
4. Remove the wires from the thermostat terminals. Be sure to note which wire connects to which terminal on the thermostat.
5. Remove the thermostat sense bulb.
6. Replace the faulty thermostat and reassemble in the reverse order.

### **Heat-On Lamp**

---

1. Remove the fastener securing the control compartment access panel.
2. Slide out the control drawer to access the lamp.
3. Disconnect the supply wires to the lamp body and remove the faulty lamp.
4. Reassemble in the reverse order.

### **Gas Control Valve**

---

1. Remove the fastener securing the control compartment access panel.
2. Slide out the control drawer.
3. Remove the main body side panel to access the gas train.

---

## **REPLACEMENT OF PARTS continued**

---

4. Break the pipe union connection at the inlet of the gas control and the 7/16" union connection located at the outlet of the control.
5. Remove the wires from the connections to the gas valve. Be sure to note which wires connect to which terminal before doing so.
7. Replace the control and reassemble in the reverse order.

### **Front Cooling Fan**

1. Remove fastener securing the control compartment access panel.
2. Slide out the control drawer.
3. Disconnect the fan supply harness from the unit wiring harness.
4. Remove fasteners retaining the fan and set aside.
5. Replace the faulty motor.
6. Reassemble in the reverse order.

### **Motor**

1. Open the oven doors.
2. Remove the oven racks and guides.
3. Remove the two (2) wing screws securing the fan guard and remove the guard.
4. Using an allen head wrench loosen the screw securing the blower wheel to the motor shaft and remove the wheel.
5. Remove the four (4) screws securing the motor mount plate to the oven casing back and pull the plate forward into the oven compartment.
6. Disconnect the motor wire connections (note which wire connects to which) and replace faulty motor.
8. Reassemble in the reverse order.

### **Ignition Control**

1. Remove the fastener securing the control compartment access panel.
2. Slide out the control drawer to access the lamp.
3. Disconnect the supply wires to faulty ignition control (noting the wire connections)
4. Replace the faulty control.
6. Reassemble in the reverse order.

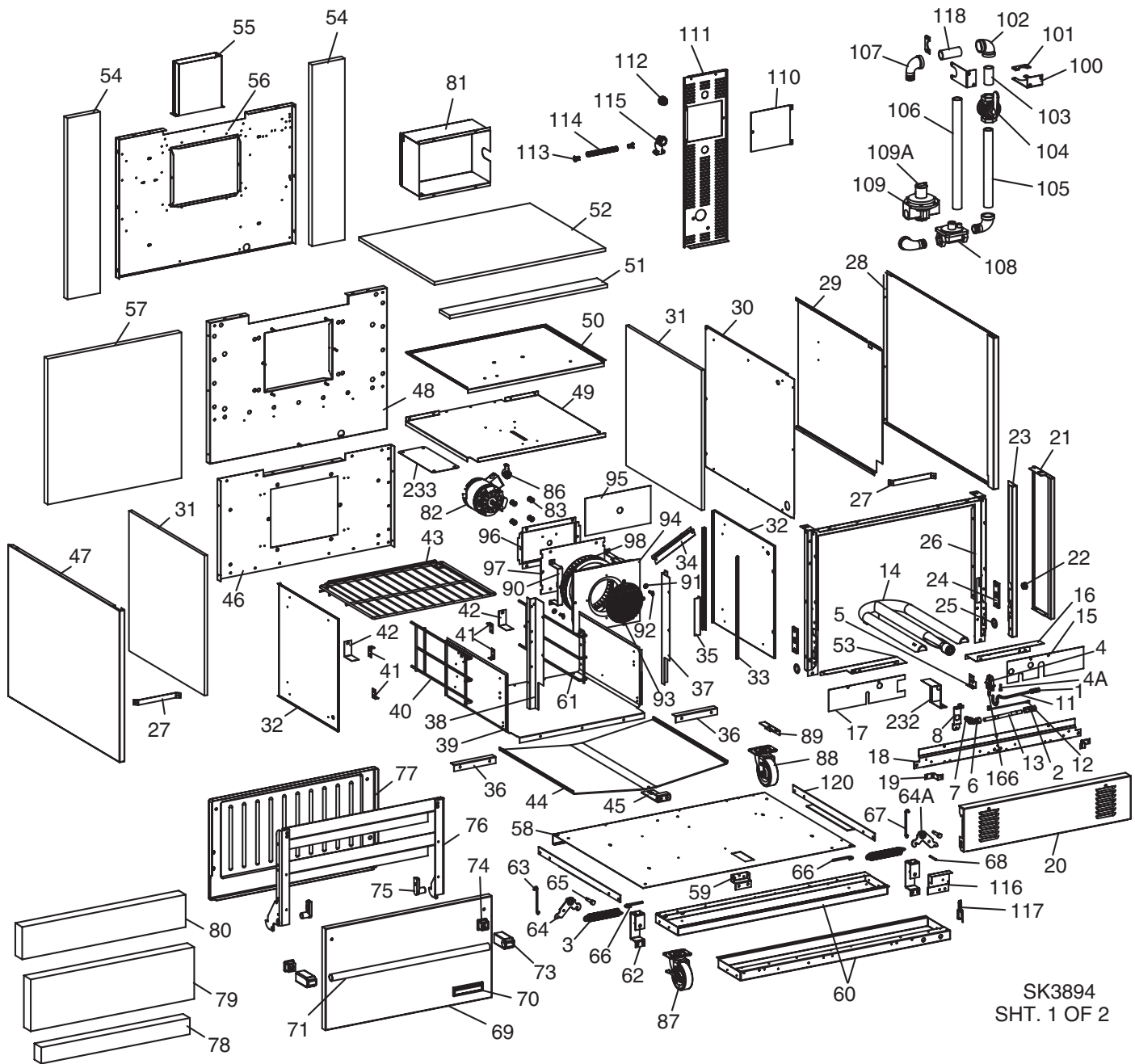
### **Hot Top Ignition Momentary Switch**

1. Remove the griddle grease drawer.
2. Remove the fasteners securing the front panel.
3. Remove the nuts securing the switch box to the front panel.
4. Disconnect the 2 wires to the switch.
5. Unscrew the switch from the front panel.
6. Replace the switch and reassemble in reverse order.

### **Hot Top Spark Generator**

1. Remove the fastener securing the control compartment access panel.
2. Slide out the control drawer to access the generator module.
3. Disconnect the wires to the generator.
4. Remove fastener retaining the generator.
5. Replace the faulty module and reassemble in reverse order.

# REPLACEMENT PARTS IDENTIFICATION



ITEM	PART No	DESCRIPTION	STW286A
1	076050-87	1/4 Compression Union	1
2	076050-88	7/16 Compression Union	1
3	1005800	Door Spring	2
4	2206513	Oven Spark Ignition Pilot NAT	1
	2206512	Oven Spark Ignition Pilot PRO	1
4A		Oven Pilot Orifice (Specify Gas)	1
5	4518183	Pilot Bracket, Oven	1
6	22701XX	Oven Orifice Fitting	3

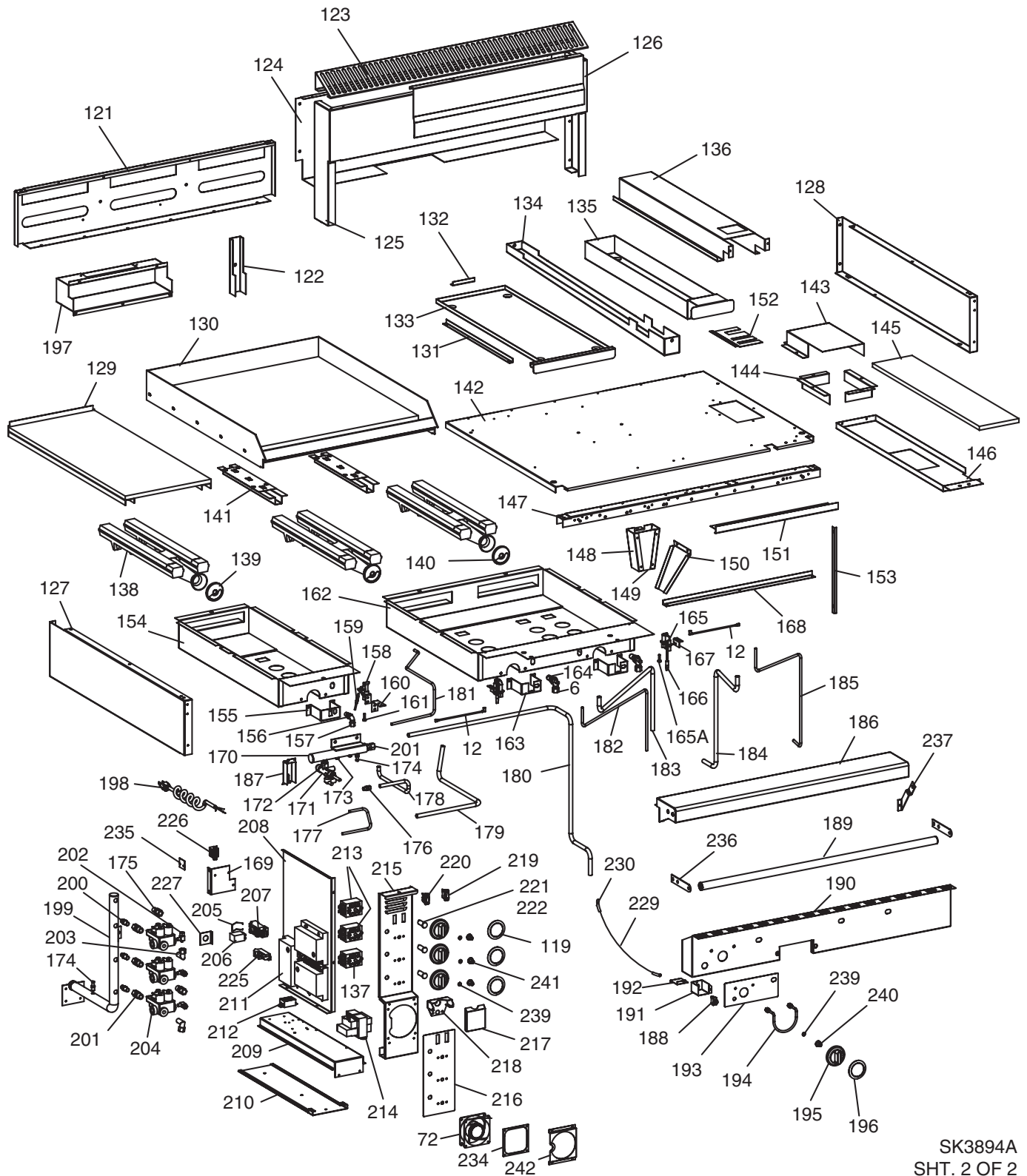
## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
7	M9-XX	Oven Orifice Hood (Specify Gas)	1
8	2635100	Oven Orifice Support Bracket	1
11	2624900	Tube ¼ - Oven Pilot to ¼ Compression Union	1
12	2642800	Sensor Wire	3
13	2624800	Tube 7/16 – 7/16 Oven Orifice to Compression Union	1
14	4518182	Oven Burner	1
15	1390702	RH Roll Out Shield	1
16	1391100	Roll Out Shield Support	1
17	4518184	LH Roll Out Shield	1
18	2512700	Lower Front Plate	1
19	2628699	Kick Panel Bracket	2
20	4517059	Kick Panel	1
21	2622200	Front Support	1
22	G01487-8	Heyco Bushing	1
23	2604400	RH Door Filler	1
24	1083001	Trunion Support	2
25	1082700	Harness Ring	2
26	1730296	Front Frame Assy	1
27	2621300	Body Side Support	2
28	2614100	Body Side R/H	1
29	2642000	Wall Shield	1
30	2604200	Inner Liner	1
31	1309021	Body Side Insulation - .5" Thick (Burglas 1200)	2
32	3020000	Side Insulation Pan	2
33	3019900	Flue Spacer Angle	6
34	G02905-01-8E	Capillary Guard Assy	1
35	1402400	Casing Support Angle	2
36	1325900	Fire Plate Rear Support	2
37	1411302	Casing Support RH	1
38	1411303	Casing Support LH	1
39	3019701	Casing Bottom	1
40	1311100	Rack Guide Assy - LH	1
41	1356600	Rack Guide Clip	4
42	1411700	Insulation Support	2
43	2301200	Oven Rack	2
	4519087	Divided Oven Rack	1
44	1357702	Fire Plate	1
45	1412098	Fire Plate Front Support Bracket Assembly	1
46	3019601	Casing Back	1
47	2614101	Body Side LH	1
48	3014099	Main Back Insulation Pan Assy	1
49	3019898	Casing Top	1
50	3020199	Top Insulation Pan Assy	1
51	1309025	Insulation - Oven Cavity Top Front	1

## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
52	1309022	Insulation - Oven Cavity Top Rear	1
53	2677600	LH Roll Out Shield Support	1
54	1472202	Insulation - Oven Cavity Rear Sides	2
55	2621199	Flue Riser Assy	1
56	3013900	Main Back	1
57	1472200	Insulation - Cavity Back	1
58	2620800	Main Bottom	1
59	2301300	Door Spring Support	1
60	2620900	Main Bottom Support Channel	2
61	1311101	Rack Guide Assy - RH	1
62	1386100	Bell Crank Support	2
63	1082803	Oven Door Hinge Link LH	1
64	1082198	LH Bell Crank	1
64A	1082199	RH Bell Crank	1
65	1082200	Bell Crank Bolt	2
66	9004701	Oven Door Spring Hook	2
67	1082802	Oven Door Hinge Link RH	1
68	G01503-16	Weld Stud 1/4-20 x 1.75	1
69	1439901	Oven Door Panel	1
70	3077100	Nameplate	1
71	3017000	Handle	1
72	4516836	120V Cooling Fan Assembly	1
	4517669	230 V Cooling Fan Assembly	1
73	3007300	Handle End	2
74	3010000	Handle End Plastic Insert	2
75	1082500	Oven Door Trunion	2
76	G03984-03-8	Oven Door Insert Assy	1
77	1439796	Oven Door Lining	1
78	1472303	Insulation - Oven Door Interior Lower Section	1
79	1472301	Insulation - Oven Door Interior Middle Section	1
80	1472302	Insulation - Oven Door Interior Upper Section	1
81	2519799	Motor Guard Assy	1
82	2485801	Motor 115V	1
	2485800	Motor 208/240V	1
83	G01503-3	Ohio Weld Nut 1/4-20	8
86	G01497-1	BX Connector Straight	2
87	4519840	Casters, Swivel, Locking	2
88	4519839	Casters, Swivel	2
89	1748701	Restraint Attachment Bracket	1
90	1361299	Air Baffle Support Assy	2
91	F542	Aluminum Padded Washer	2
92	F543	Stainless Steel Wing Screw	2
93	2520100	Fan Protector Screen	1
94	2395999	Air Baffle Assy	1

# REPLACEMENT PARTS IDENTIFICATION continued



SK3894A  
SHT. 2 OF 2



## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
95	1669101	Motor Pocket Insulation Board	1
96	3013301	Motor Mount Pocket	1
97	3013401	Motor Mount Plate	1
98	G02952-01P	Blower Wheel	1
100	2640700	Manifold Support Bracket	2
101	2640800	Manifold Support Clamp	2
102	G01474-5	3/4" NPT Elbow	1
103	G01738-14	Nipple 3/4" NPT X 2" (Domestic Model)	1
104	G01518-1	Valve-Swing Type Shut Off Gas (Domestic Model)	1
105	G01738-9	Nipple 3/4" NPT X 9.5" (Domestic Model)	1
106	G01738-13	Nipple 3/4" NPT X 13.5" (Export Model)	1
107	G01475-2	3/4" NPT 90 Deg. Street Elbow	3
108	2127502	Gas Regulator (NAT) (Domestic Model)	1
	2127500	Gas Regulator (PRO) (Domestic Model)	1
109	2525200	Jeavons Regulator (NAT) (Export Model)	1
109A	2525300*	Regulator Spring (PRO)	1
110	2622400	Wiring Access Cover	1
111	4517369	Control Compartment Back	1
112	2490500	Straight Thru Relief Bushing (Domestic Model)	1
113	1029600	Antishorts	2
114	1029400	3/8" BX Cable	1
115	1028500	BX Connector - 90 Deg.	2
116	4517402	Door Switch Bracket/Heat Shield	1
117	2628000	Door Switch	1
117A	3096100*	Door Switch Wiring Harness	1
118	G01738-4	Nipple 2.5"	1
119	2621400	Oven/Griddle Dial Insert Fahrenheit	3
	2621401	Oven/Griddle Dial Insert Celsius	3
120	2620700	Lifting Angle	2
121	2615900	Burner Box Back	1
122	1414600	Burner Box Back Support	1
123	2374301	Backguard Top 36"	1
124	2614200	Backguard Back	1
125	2374101	Backguard Front	1
126	2629400	Griddle Splash Shield	1
127	2614398	Burner Box Side Assy LH	1
128	2614399	Burner Box Side Assy RH	1
129	2604799	Hot Top Assy	1
130	4517072	Griddle Assy	1
131	2616100	Drip Tray Guide	1
132	2616000	Drip Tray Stop	1
133	4516888	Drip Tray	1
134	2618000	Grease Trough	1
135	4516885	Grease Drawer Assy	1



## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
136	4516887	Grease Sleeve	1
137	4517610	Thermostat - Oven	1
138	1014900	Cast Iron H-Burner	3
139	1028002	Air Shutter (Hot Top Burner)	1
140	2512100	Air Shutter (Griddle Burner)	2
141	4517190	Bulb Clamp/Shield Assy	2
142	2614500	Burner Box Bottom	1
143	4517373	Heat Shield-Tubing	1
144	2619400	Insulation Shield	2
145	2642100	Control Compartment Top Insulation	1
146	2608100	Insulation Retainer	1
147	1085000	Burner Box Front Channel 36"	1
148	4517408	Grease Chute Front	1
149	4517409	Grease Chute Back	1
150	2618100	Grease Deflector	1
151	4516890	False Handle	1
152	4516884	Heat Shield - Upper Tubing	1
153	2615700	Panel Stop	1
154	2614698	Hot Top Burner Box Assy	1
155	2617500	Orifice Support Hot Top	1
156	M8-XX	Orifice Hood - Hot Top (Specify Gas)	1
157	G02486-00	Orifice Fitting less Hood (Hot Top)	1
158	2200700	SIT Pilot RH	1
158A	2200704	3/16" Comp Nut	1
158B	2200705	Olive Ball Sleeve	1
158C	2200706	Nut Thermo Retaining	1
158D	2200707	Nut Electrode	1
158E	2200708	Electrode	1
159	2200600	18" Thermocouple - Hot Top	1
160	2614900	Bracket - Hot Top Pilot	1
161	2200702	Orifice - Hot Top Pilot #32 (NAT)	1
	2200703	Orifice - Hot Top Pilot #23 (PRO)	1
162	4516665	Griddle Burner Box Assy	1
163	2617400	Orifice Support -Griddle	2
164	M9-XX	Orifice Hood - Griddle (Specify Gas)	2
165	2206514	Griddle Spark Ignition Pilot (PRO)	2
	2206515	Griddle Spark Ignition Pilot (NAT)	2
165A		Griddle Spark Ignition Pilot Orifice (Specify Gas)	2
166	1466100	Flame Sensor	3
167	2614800	Griddle Pilot Bracket	2
168	4517038	Heat Shield - Griddle Burner Box	1
169	2617000	Main Manifold Retainer Bracket	1
170	2612399	Sub-Manifold Assembly	1
171	2200199	Valve (Hot Top)	1

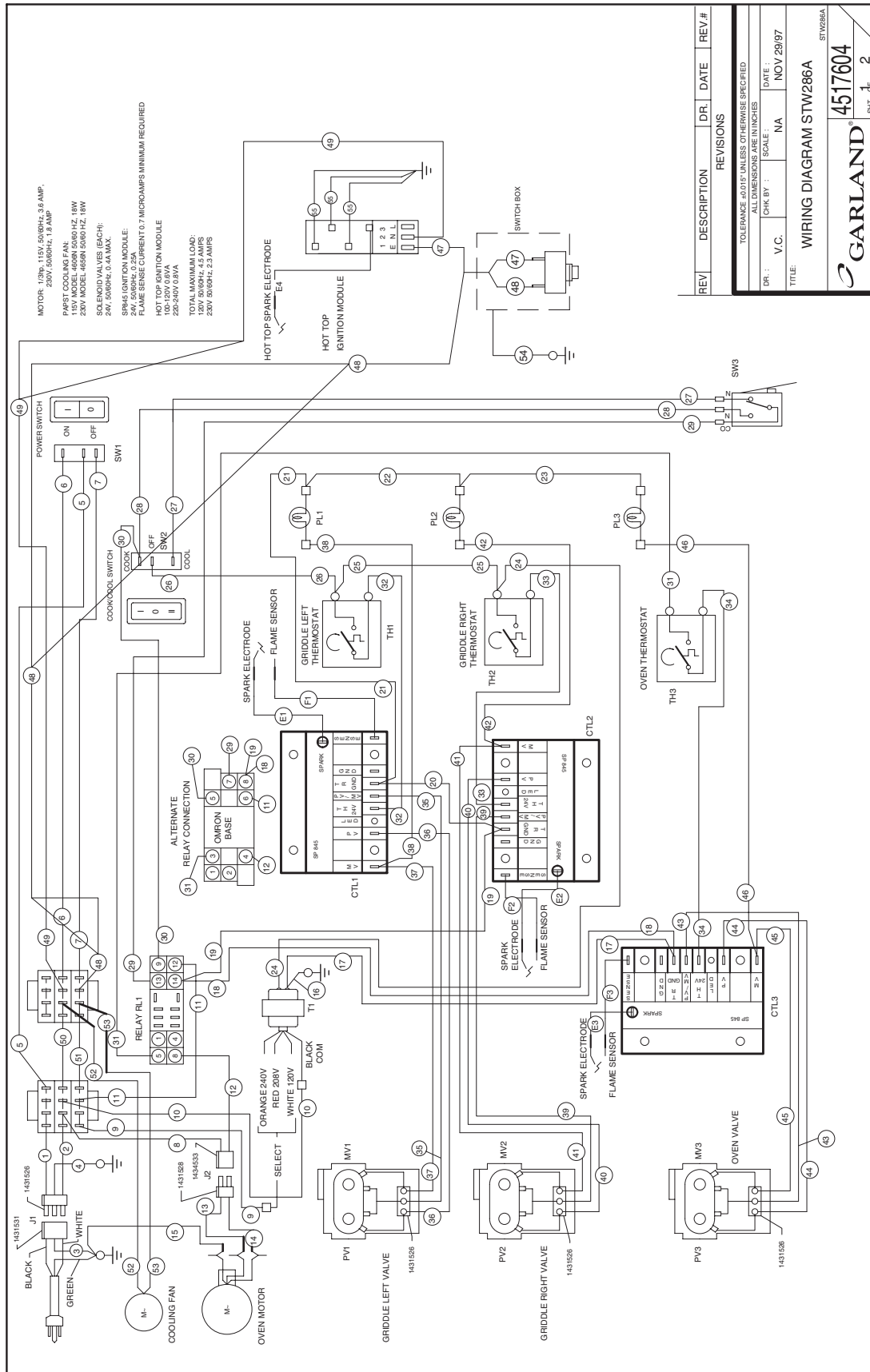
## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
172	2198102	Valve Connector Fitting 10mm	1
173	2203400	1/8" NPT Plug	2
174	G02251-1	Pressure Test Spigot	2
175	G01243-1	Fitting 68-7B	1
176	1086597	Gum Valve – 3/16" Pilot	1
177	4517599	Tube (1/4") - Hot Top Valve to Hot Top Orifice Fitting	1
178	2625000	Tube (3/16") - Hot Top Valve to Hot Top Pilot	1
179	2624700	Tube (7/16") -Oven Solenoid Valve to 7/16 Compression Coupling	1
180	2619100	Tube (7/16") –Manifold to Sub Manifold	1
181	2624600	Tube (1/4") -Oven Solenoid Valve to (1/4) Compression Coupling	1
182	4517601	Tube (1/4") –Solenoid Valve to Griddle Pilot LH	1
183	4517602	Tube (7/16") –Solenoid Valve to Griddle Burner Orifice LH	1
184	4517603	Tube (7/16") –Solenoid Valve to Griddle Burner Orifice RH	1
185	4517600	Tube (1/4") –Solenoid Valve to Griddle Pilot RH	1
186	4517062	Front Rail	1
187	4517039	Heat Shield - Hot Top Valve	1
188	G03053-1	Momentary Push Button Switch	1
189	4516937	Handle Assy	1
190	4517048	Valve Panel	1
191	4517416	Switch Box	1
192	4517417	Switch Box Cover	1
193	4517061	Hot Top Overlay	1
194	G0728-1-8	Thermostat Guard	1
195	3043100	Valve Knob	4
196	2310000	Dial Insert (Hot Top)	1
197	2615802	Flue Box	1
198	2642200	Coiled Cord (Domestic Model)	1
199	2612299	Main Manifold	1
200	2621500	Valve Connector Fitting (7/16")	3
201	1095499	3/8 NPT to 7/16 Comp Fitting	5
202	G03674-3	Valve -Pilot 1/4" Angle 90Deg	3
203	G02352-1	Elbow 3/8 NPT to 7/16cc Male	2
204	2619500	Solenoid Valve 24v	3
205	2475700	Relay Clip	1
206	2672200	Relay	1
207	2475600	Relay Base	1
208	2617300	Component Side Support	1
209	2613300	Component Support	1
210	2613400	Component Slide	1
211	2619600	Pilot Ignition Control 24V	3
212	2573000	Terminal Block 3 Circuit	2
213	4517609	Thermostat - Griddle	2
214	2652401	75VA Transformer (120V)	1
	2652402	75VA Transformer (208/240V)	1

## REPLACEMENT PARTS IDENTIFICATION continued

ITEM	PART No	DESCRIPTION	STW286A
215	4516857	Control Panel	1
216	4517060	Overlay - Control Panel	1
217	2629000	Oven Control Cover	1
218	2628700	Oven Control Cover Support	1
219	2630200	Switch SPDT ON-OFF-ON	1
220	2146800	Illuminated Power Switch	1
221	2667200	Pilot Assy Amber	3
222	4517756*	Extra 7/16" c.c. Hardware	1
225	4514749	Spark Generator - 230V, 4 outlet	1
	4514750	Spark Generator - 120V, 4 outlet	1
226	3050401	Terminal Block (Export Model)	1
227	4517052	BX-Connector Retainer	1
229	G03883R	Thermoflex Insulating Sleeve	1
230	2200203	High Tension Wire Lead 64"	1
232	4520038	Vent Cover	1
233	4520028	Exhaust Fan Filter Frame/Screen	1
234	4516839	Exhaust Fan Filter	1
235	4517051	Capillary Heat Shield	1
236	4516938	Handle End	2
237	4517424	Front Rail Support Bracket - RH	1
239	3043300	Spring Retainer	4
240	3043202	Hot Top Valve Knob Hub	1
241	3043207	Griddle/Oven Valve Knob Hub	3
242	4520024	Filter Cover	1
243	G01500-1	Ground Terminal (230V)	1
* NOT ILLUSTRATED			

# WIRING DIAGRAMS

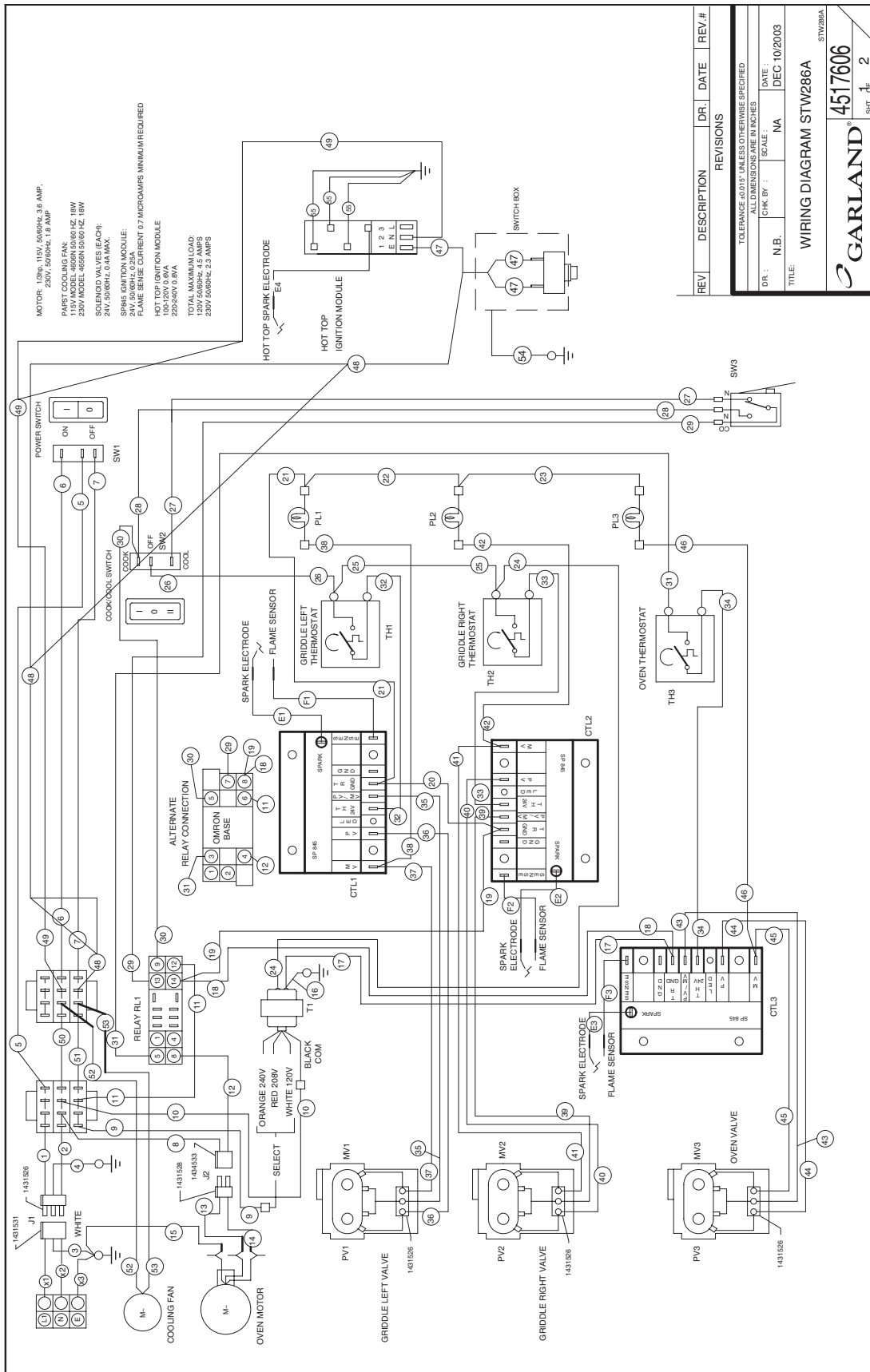


REV	DESCRIPTION	DR	DATE	REV.#
1	WIRING DIAGRAM STW286A			

REVISIONS				
TOLERANCE .001" UNLESS OTHERWISE SPECIFIED				
DR.	CHK BY	SCALE	DATE	
	V.C.	NA	NOV 29/97	
TITLE:				
WIRING DIAGRAM STW286A				
STW286A				
GARLAND® 4517604				
SPT. 1 2				

# WIRING DIAGRAMS

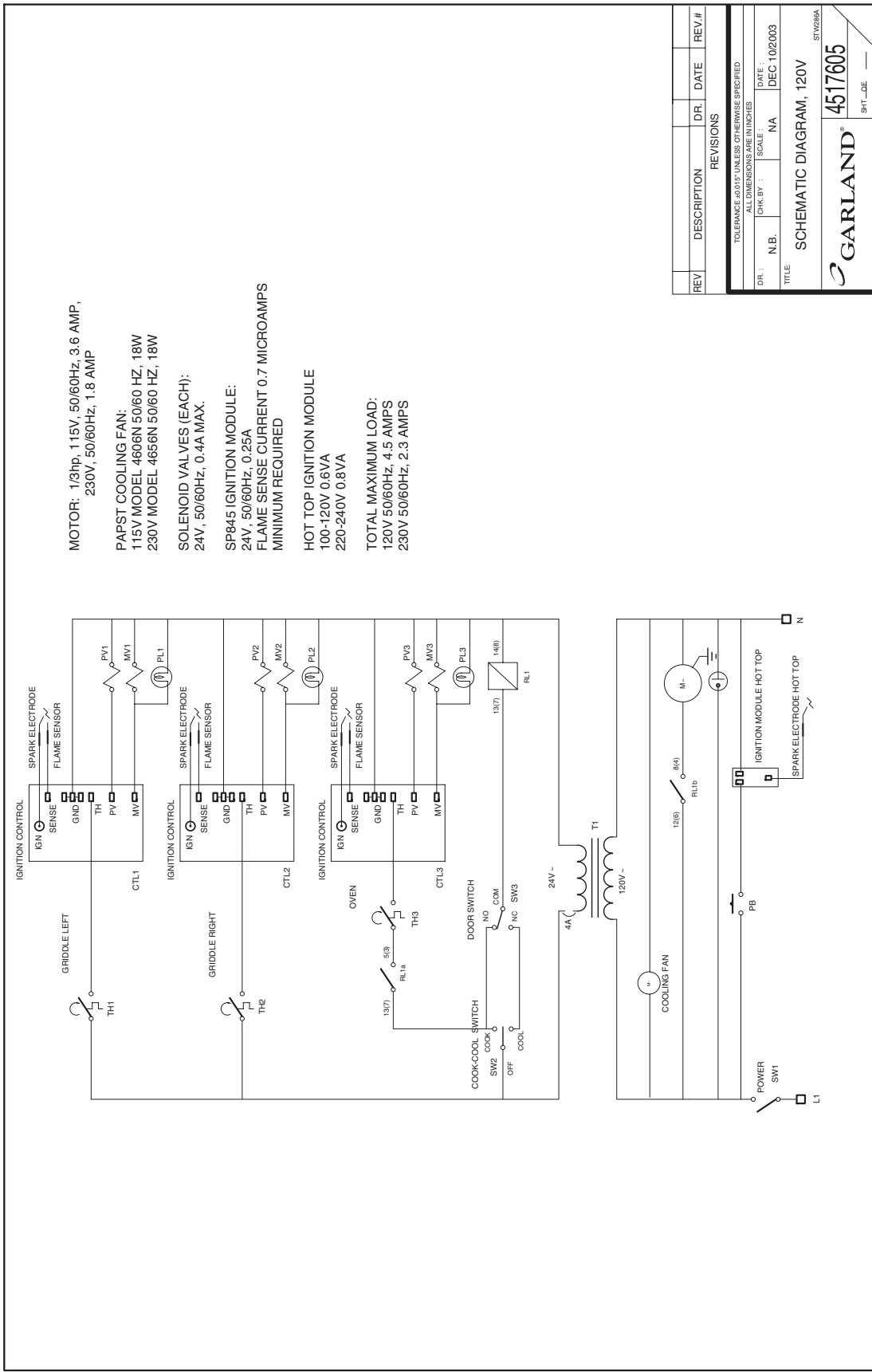


REV	DESCRIPTION	DR	DATE	REV.#
1	WIRING DIAGRAM STW286A			

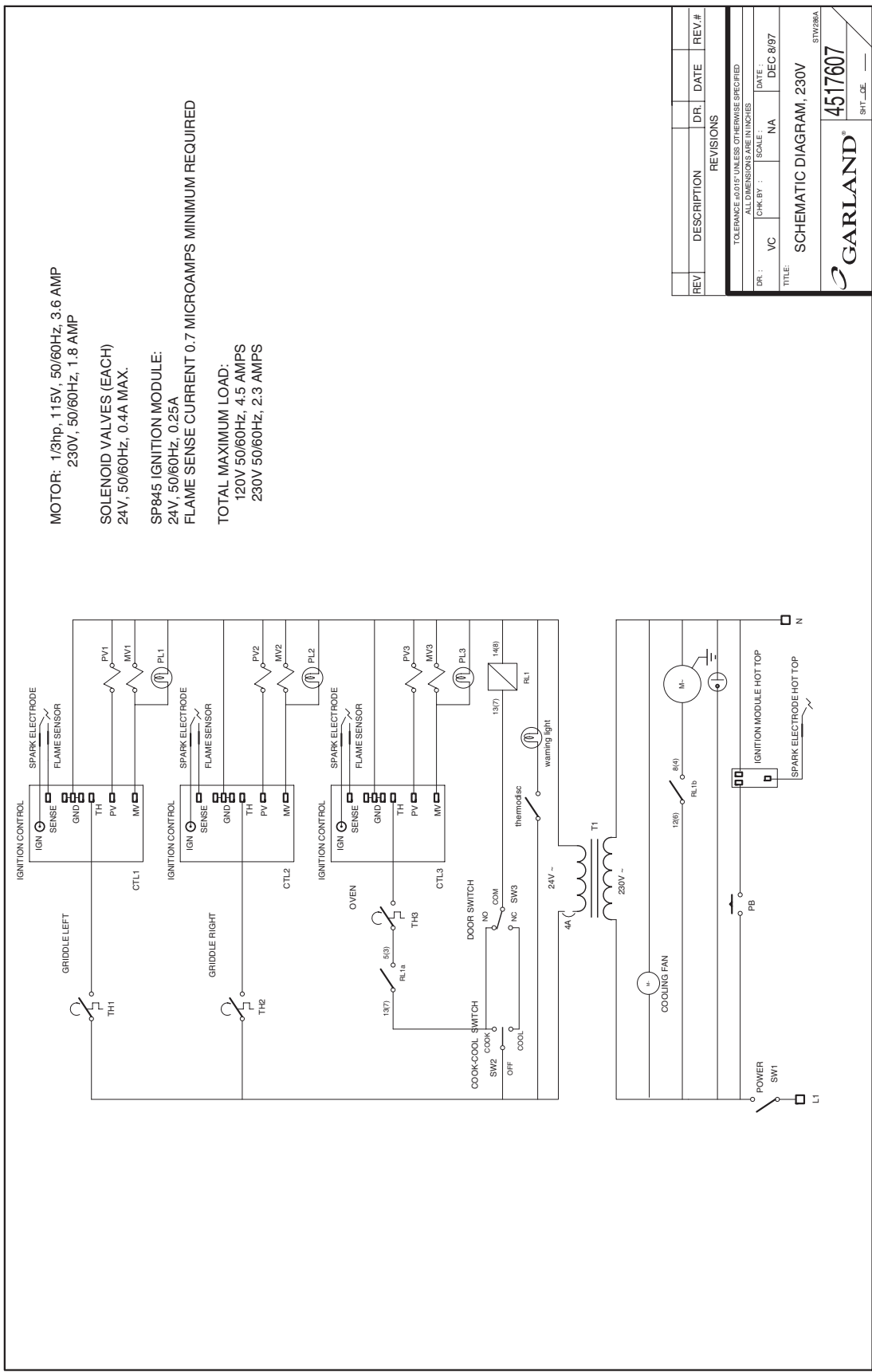
TOLERANCE ADJUST UNLESS OTHERWISE SPECIFIED	
DR :	CHK BY :
N.B.	SCALE :
DATE :	NA
DEC 10/2003	
TITLE :	
WIRING DIAGRAM STW286A	
GARLAND®	4517606
SHT. 1	2

# WIRING DIAGRAMS



REV	DESCRIPTION	DR	DATE	REV #
REVISIONS				
TOLERANCE .001" UNLESS OTHERWISE SPECIFIED				
ALL DIMENSIONS ARE IN INCHES				
DR :	N.B.	CHK BY :	SCALE :	DATE :
			NA	DEC 10/2003
TITLE				
SCHEMATIC DIAGRAM, 120V				
STW259A				
GARLAND®				
4517605				
SHT_DE				

# WIRING DIAGRAMS



 **GARLAND®**