



Service Manual

This manual is to be used by qualified appliance technicians only. Viking does not assume any responsibility for property damage or personal injury for improper service procedures done by an unqualified person.

30 Inch Gas Range

This Base Manual covers general and specific information including, but not limited to the following models:

VGCC530



SMC-0008
February 2009

SAVE THESE INSTRUCTIONS

REVIEW ALL SERVICE INFORMATION IN THE APPROPRIATE SERVICE MANUAL AND TECHNICAL SHEETS BEFORE BEGINNING REPAIRS.

Pride and workmanship go into every product to provide our customers with quality products. It is possible, however, that during its lifetime, a product may require service. Products should be serviced only by a qualified service technician that is familiar with the safety procedures required in the repair and who is equipped with the proper tools, parts, testing instruments, and the appropriate service manual.

Safety Information

We have provided many important safety messages in this manual and on the appliance. Always read and obey all safety messages. This is the safety alert symbol.



This symbol alerts you to hazards that can kill or hurt you and others. All safety messages will be preceded by the safety alert symbol and the word "DANGER", "WARNING", or "CAUTION". These words mean:

 **DANGER**

IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.

 **WARNING**

Hazards or unsafe practices which **COULD** result in severe personal injury or death.


 **CAUTION**

Hazards or unsafe practices which **COULD** result in minor personal injury or product or property damage.

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

 **WARNING**

To avoid risk of serious injury or death, repairs should not be attempted by unauthorized personnel.

 **CAUTION**

VIKING will not be responsible for any injury or property damage from improper service procedures. If performing service on your own product, you must assume responsibility for any personal injury or property damage which may result.

To locate an authorized servicer, call:

Viking Customer Service
Phone No. 1-888-845-4641

Address your written correspondence to:

Viking Preferred Service
1803 HWY 82 West
Greenwood, MS 38930



PROFESSIONAL SERIES FREESTANDING GAS RANGES WARRANTY

ONE YEAR FULL WARRANTY

Freestanding gas ranges and all of their component parts, except as detailed below*, are warranted to be free from defective materials or workmanship in normal household use for a period of twelve (12) months from the date of original retail purchase. Viking Range Corporation, warrantor, agrees to repair or replace, at its option, any part which fails or is found to be defective during the warranty period.

*Glass (including light bulbs), painted and decorative items are warranted to be free from defective materials or workmanship for a period of ninety (90) days from the date of original retail purchase. ANY DEFECTS MUST BE REPORTED TO THE SELLING DEALER WITHIN NINETY (90) DAYS FROM DATE OF ORIGINAL RETAIL PURCHASE.

Viking Range Corporation uses the most up-to-date processes and best materials available to produce all color finishes. However, slight color variation may be noticed because of the inherent differences in painted parts and porcelain parts as well as differences in kitchen lighting, product locations, and other factors.

FIVE YEAR LIMITED WARRANTY

Any surface burner, griddle burner, grill burner, or oven burner which fails due to defective materials or workmanship in normal household use during the second through fifth year from the date of original retail purchase will be repaired or replaced, free of charge for the part itself, with the owner paying all other costs, including labor.

TEN YEAR LIMITED WARRANTY

Any porcelain oven or porcelain inner door panel which rusts through due to defective materials or workmanship in normal household use during the second through the tenth year from the date of original retail purchase will be repaired or replaced, free of charge for the part itself, with the owner paying all other costs, including labor.

NINETY (90) DAY RESIDENTIAL PLUS WARRANTY

This warranty applies to applications where use of the product extends beyond normal residential use. Examples are, but not limited to, bed and breakfasts, fire stations, private clubs, churches, etc. This warranty excludes all commercial locations such as restaurants, food service locations and institutional food service locations.

This warranty extends to the original purchaser of the product warranted hereunder and to each transferee owner of the product during the term of the warranty.

This warranty shall apply to products purchased and located in the United States and Canada. Products must be purchased in the country where service is requested. Warranty labor shall be performed by an authorized Viking Range Corporation service agency or representative. Warranty shall not apply to damage resulting from abuse, accident, natural disaster, loss of electrical power to the product for any reason, alteration, outdoor use, improper installation, improper operation, or repair or service of the product by anyone other than an authorized Viking Range Corporation service agency or representative. This warranty does not apply to commercial usage. Warrantor is not responsible for consequential or incidental damage whether arising out of breach of warranty, breach of contract, or otherwise. Some jurisdictions DO NOT allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Owner shall be responsible for proper installation, providing normal care and maintenance, providing proof of purchase upon request, and making the appliance reasonably accessible for service. If the product or one of its component parts contains a defect or malfunction during the warranty period, after a reasonable number of attempts by the warrantor to remedy the defects or malfunctions, the owner is entitled to either a refund or replacement of the product or its component part or parts. Warrantor's liability on any claim of any kind, with respect to the goods or services covered hereunder, shall in no case exceed the price of the goods or service or part thereof which gives rise to the claim.

WARRANTY SERVICE

Under the terms of this warranty, service must be performed by a factory authorized Viking Range Corporation service agent or representative. Service will be provided during normal business hours, and labor performed at overtime or premium rates shall not be covered by this warranty. To obtain warranty service, contact the dealer from whom the product was purchased, an authorized Viking Range Corporation service agent, or Viking Range Corporation. Provide model and serial number and date of original purchase. For the name of your nearest authorized Viking Range Corporation service agency, call the dealer from whom the product was purchased or Viking Range Corporation. **IMPORTANT:** Retain proof of original purchase to establish warranty period.

The return of the Owner Registration Card is not a condition of warranty coverage. You should, however, return the Owner Registration Card so that Viking Range Corporation can contact you should any question of safety arise which could affect you.

Any implied warranties of merchantability and fitness applicable to the above described surface burner, griddle burner, grill burner, oven burner, porcelain oven, or porcelain inner door panel are limited in duration to the period of coverage of the applicable express written limited warranties set forth above. Some jurisdictions DO NOT allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which may vary from jurisdiction to jurisdiction.

Specifications subject to change without notice.

For more product information, call 1-888-VIKING1 (845-4641), or visit our web site at <http://www.vikingrange.com>

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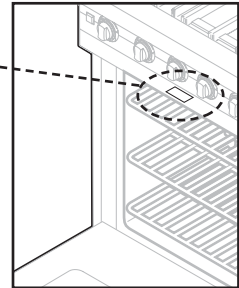
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Serial Number

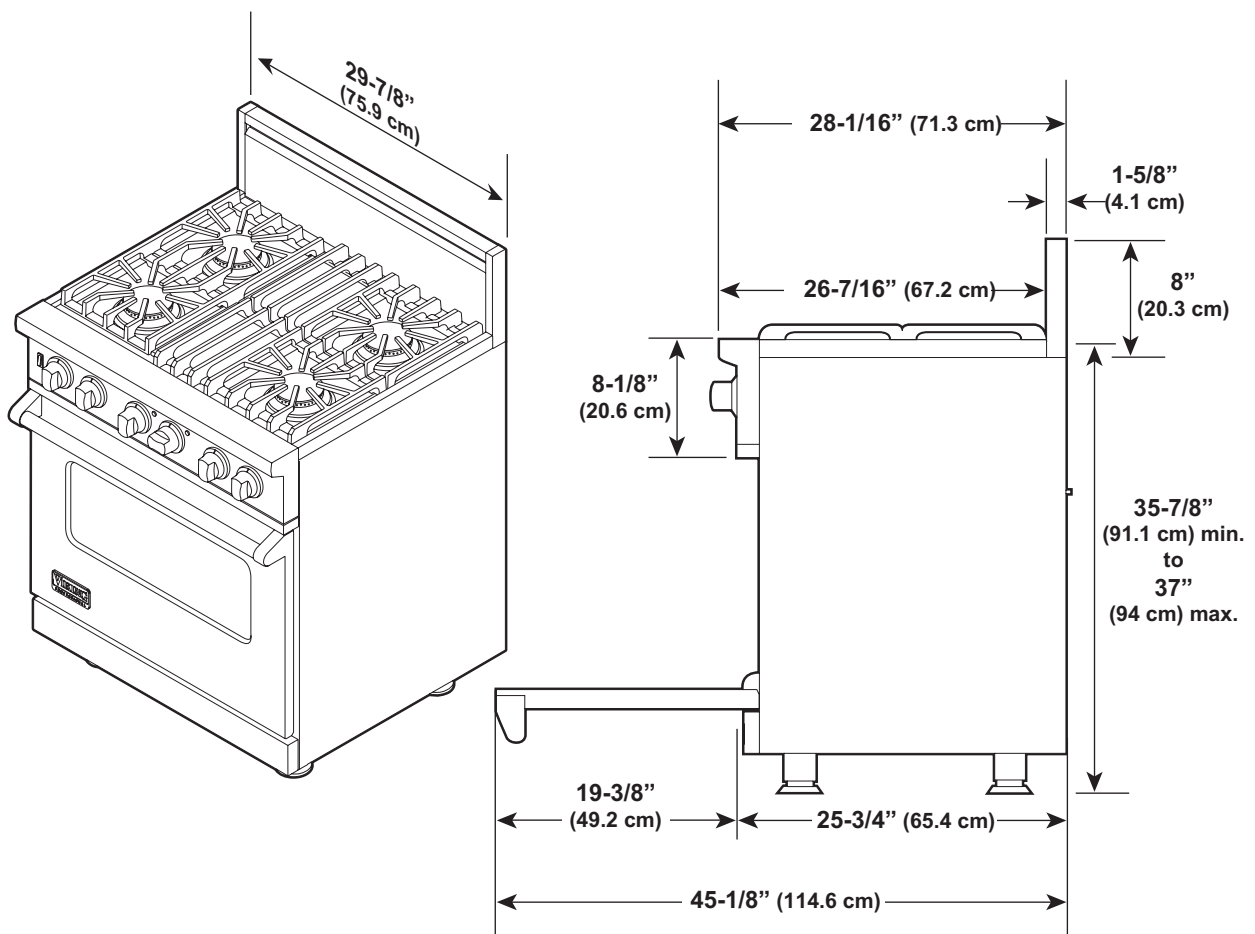
The serial number and model number for your appliance can be found by opening the door and looking under the control panel.

Serial Number 011808C0000000001

Month Day Serial Number
 Year of Manufacture



Dimensions



Gas 30" Range

Note: Unit shown with standard 8" (20.3 cm) backguard.

Specifications

Gas 30" Range	
Description	VGCC530-4B
Overall width	29 ⁷ / ₈ " (75.9 cm)
Overall height	To top of side trim 35 ⁷ / ₈ " (91.1 cm) min. 37" (94 cm) max. Legs adjust 1 ¹ / ₈ " (2.9 cm)
Overall depth from rear	To end of side panel—25 ³ / ₄ " (65.4 cm) To end of landing edge—28 ¹ / ₁₆ " (71.2 cm) To end of door handle—28 ¹¹ / ₁₆ " (72.9 cm)
Additions to base height	To top of island trim—add 1" (2.5 cm) To top of high shelf—add 23 ¹ / ₂ " (59.7 cm)
Gas requirements	Shipped natural or LP/Propane gas; field convertible with conversion kit (purchased separately); accepts standard residential 1/2" (1.3 cm) ID gas service line.
Gas manifold pressure	Natural 5.0" W.C.P. / Liquid propane LP 10.0" W.C.P.
Electrical requirements	120 VAC, 60 Hz; 4 Ft. (121.9 cm), 3-wire cord with grounded 3-prong plug attached to unit.
Maximum amp usage	0.83 amps
Surface burner rating	
Natural gas	15,000 BTU (4.4 kW)
LP	12,500 BTU (3.7 kW)
Griddle burner rating	N/A
Grill burner rating	N/A
Oven interior width	23" (58.4 cm)
Oven interior height	16 ¹ / ₈ " (40.9 cm)
Oven interior depth	AHAM 17" (43.1 cm) Overall—18 ³ / ₄ " (47.6 cm)
Oven volume	Total oven capacity — 4.0 cu. ft. Measure to AHAM standards 3.7 cu. ft.
Approximate shipping weight	410 lbs. (186.0 kg)

Minimum clearances from adjacent combustible construction:

Below cooking surface (36" [91.4 cm] and below)

- Sides - 0"
- Top grate support - 36" (91.4 cm)

Above cooking surface (above 36" [91.4 cm])

- Sides - 6" (15.2 cm)
- Within 6" (15.2 cm) side clearance, wall cabinets no deeper than 13" (33.0 cm) must be minimum 18" (45.7 cm) above cooking surface
- Wall cabinets directly above product must be a minimum of 42" (106.7 cm) above cooking surface
- Rear - 0" with 8" backguard or high shelf; 0" with island trim and noncombustible rear wall
- 6" (15.2 cm) with island trim and combustible rear wall

Warnings

Read and follow all instructions before using this appliance to prevent the potential risk of fire, electric shock, personal injury, or damage to the appliance as a result of improper usage of the appliance. Use appliance only for its intended purpose as described in this manual.

To ensure proper and safe operation: Appliance must be properly installed and grounded by a qualified technician. **DO NOT** attempt to adjust, repair, service, or replace any part of your appliance unless it is specifically recommended in this manual. All other servicing should be referred to a qualified servicer. Have the installer show you the location of the gas shutoff valve and how to shut it off in an emergency.

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death. **DO NOT** store or use gasoline or other flammable vapors and liquids in the vicinity of this or any appliance.

WHAT TO DO IF YOU SMELL GAS:

- **DO NOT** try to light any appliance.
- **DO NOT** touch any electrical switch.
- **DO NOT** use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

WARNING

- THIS RANGE CAN TIP
- INJURIES TO PERSONS CAN RESULT
- INSTALL ANTI-TIP DEVICE PACKED WITH RANGE

WARNING

To avoid risk of property damage, personal injury or death; follow information in this manual exactly to prevent a fire or explosion.

To Prevent Fire or Smoke Damage

- Be sure all packing materials are removed from the appliance before operating it.

- Keep area around appliance clear and free from combustible materials, gasoline, and other flammable vapors and materials.
- If appliance is installed near a window, proper precautions should be taken to prevent curtains from blowing over burners.
- **NEVER** leave any items on the rangetop. The hot air from the vent may ignite flammable items and may increase pressure in closed containers, which may cause them to burst.
- Many aerosol-type spray cans are **EXPLOSIVE** when exposed to heat and may be highly flammable. Avoid their use or storage near an appliance.
- Many plastics are vulnerable to heat. Keep plastics away from parts of the appliance that may become warm or hot. **DO NOT** leave plastic items on the rangetop as they may melt or soften if left too close to the vent or a lighted surface burner.
- Combustible items (paper, plastic, etc.) may ignite and metallic items may become hot and cause burns. **DO NOT** pour spirits over hot foods. **DO NOT** leave oven unsupervised when drying herbs, breads, mushrooms, etc; fire hazard.

In Case of Fire

Turn off appliance and ventilating hood to avoid spreading the flame. Extinguish flame, then turn on hood to remove smoke and odor.

- **Cooktop:** Smother fire or flame in a pan with a lid or cookie sheet.
- **NEVER** pick up or move a flaming pan.
- **Oven:** Smother fire or flame by closing the oven door. **DO NOT** use water on grease fires. Use baking soda, a dry chemical, or foam-type extinguisher to smother fire or flame.
- **GREASE**—Grease is flammable and should be handled carefully. **DO NOT** use water on grease fires. Flaming grease can be extinguished with baking soda or, if available, a multipurpose dry chemical or foam type extinguisher. Let fat cool before attempting to handle it. **DO NOT** allow grease to collect around the oven or in vents. Wipe up spillovers immediately.

Heating Elements

- **NEVER** touch oven bake and broil burner area or interior surfaces of oven.
- Bake and broil burners may be hot even though they are dark in color. Areas near burners and interior surfaces of an oven may become hot enough to cause burns.
- During and after use, **DO NOT** touch or let clothing or other flammable materials contact heating elements, areas near elements, or interior surfaces of oven until they have had sufficient time to cool. Other surfaces of the oven may become hot enough to cause burns, such as the oven vent opening, the surface near the vent opening, and the oven door window.

Cleaning Safety

- Turn off all controls and wait for appliance parts to cool before touching or cleaning them. **DO NOT** touch the burner grates or surrounding areas until they have had sufficient time to cool.
- Clean appliance with caution. Use care to avoid steam burns if a wet sponge or cloth is used to wipe spills on a hot surface. Some cleaners can produce noxious fumes if applied to a hot surface.
- **DO NOT** clean door gasket. The door gasket is essential for a good seal. Care should be taken not to rub, damage, or move the gasket.
- No commercial oven cleaner or oven liner protective coating such as aluminum foil should be used in or around any part of the oven. Improper oven liners may result in a risk of electric shock or fire. Keep oven free from grease buildup.

About Your Appliance

CAUTION

NEVER use appliance as a space heater to heat or warm a room to prevent potential hazard to the user and damage to the appliance. **DO NOT** use the rangetop or oven as a storage area for food or cooking utensils.

- For proper oven performance and operation, **DO NOT** block or obstruct the oven vent duct located on the right side of the air grille.
- Avoid touching oven vent area while oven is on and for several minutes after oven is turned off. When the oven is in use, the vent and surrounding area become hot enough to cause burns. After oven is turned off, **DO NOT** touch the oven vent or surrounding areas until they have had sufficient time to cool.
- Other potentially hot surfaces include rangetop, areas facing the rangetop, oven vent, surfaces near the vent opening, oven door, areas around the oven door and oven window.
- The misuse of oven doors (e.g., stepping, sitting, or leaning on them) can result in potential hazards and/or injuries.

WARNING

ELECTRICAL SHOCK HAZARD. DO NOT touch a hot oven light bulb with a damp cloth as the bulb could break. Should the bulb break, disconnect power to the appliance before removing bulb to avoid electrical shock.

WARNING

ELECTRICAL SHOCK HAZARD. Disconnect the electric power at the main fuse or circuit breaker before replacing bulb.

WARNING

BURN OR ELECTRICAL SHOCK HAZARD. Make sure all controls are OFF and oven is COOL before cleaning. Failure to do so can result in burns or electrical shock.

CAUTION

DO NOT turn the temperature control on during defrosting. Turning the convection fan on will accelerate the natural defrosting of the food without the heat.

CAUTION

BURN HAZARD. The oven door, especially the glass, can get hot. Danger of burning: **DO NOT touch the glass!**

CAUTION

DO NOT store items of interest to children over the unit. Children climbing to reach items could be seriously injured.

Electrical & Gas Requirements

Electrical Requirements

Check your national and local codes regarding this unit. This range requires 120 VAC/60 Hz; 4 ft. (121.9 cm), 3-wire cord with grounded 3-prong plug attached to unit. Unit must be fused separately from any other circuit.

WARNING

Electrical shock hazard. To avoid the risk of electrical shock, personal injury or death; verify electrical power is turned off at the breaker box and gas supply is turned off until the range is installed and ready to operate, installation by an authorized installer only.

Gas Connection

The gas supply (service) line must be the same size or greater than the inlet line of the appliance. This range uses a 1/2" (1.3 cm) ID NPT (Sch40) inlet. Sealant on all pipe joints must be resistive to LP gas.

The range is designed specifically for natural gas or liquid propane (LP) gas. Before beginning installation, verify that the model is compatible with the intended gas supply.

Manual shut-off valve

This installer-supplied valve must be installed in the gas service line before the appliance in the gas stream and in a location where it can be reached quickly in the event of an emergency.

Connecting Gas & Electric

⚠ DANGER

Gas leak hazard. To avoid risk of personal injury or death; leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

Connect gas and electric. Before placing appliance in operation, always check for gas leaks. This must be performed by your dealer, a qualified licensed plumber, or gas service company.

In Massachusetts

A "T" handle type manual valve must be installed in the gas supply line to the appliance.

IMPORTANT: Any conversion required must be performed by your dealer or a qualified licensed plumber or gas service company. Please provide the service person with this manual before work begins.

Pressure Regulator

- All heavy-duty, commercial type cooking equipment must have a pressure regulator on the incoming service line for safe and efficient operation, since service pressure may fluctuate with local demand. External regulators are not required on this range since a regulator is built into each unit at the factory. Under no condition bypass this built-in regulator.
- The appliance must be disconnected from the gas supply piping system during any pressure testing of that system.

- Manifold pressure should be checked with a manometer, natural gas requires 5.0" W.C.P. and LP gas requires 10.0" W.C.P. Incoming line pressure upstream from the regulator must be 1" W.C.P. higher than the manifold pressure in order to check the regulator. The regulator used on this range can withstand a maximum input pressure of 1/2" PSI (14.0" W.C.P.). If the line pressure is in excess of that amount, a step down regulator will be required.

Flexible Connections

If the unit is to be installed with flexible couplings and/or quick-disconnect fittings, the installer must use a heavy-duty AGA design-certified flexible connector of at least 1/2" (1.3 cm) ID NPT (with suitable strain reliefs) in compliance with ANSI Z21.41 and Z21.69.

In Canada

CAN 1-6, 10-88 metal connectors for gas appliances and CAN 1-6.9 M79 quick disconnect devices for use with gas fuel.

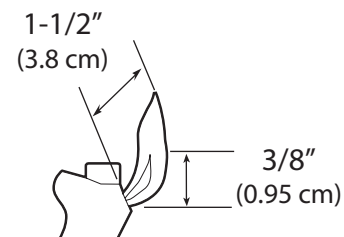
In Massachusetts

This appliance must be installed with a 36" (3-foot) long flexible gas connector.

Performance Checklist

A qualified installer should carry out the following checks:

- Check top burner ignition. See drawing for proper flame height on HI. The low flame should light at every port.



- Check oven bake function—bake burner on full power.
- Check oven broil function—broil burner on full power.
- Check convection fan function—convection fan comes on when switch is turned on.

General Information



Before Using Range

All products are wiped clean with solvents at the factory to remove any visible signs of dirt, oil, and grease which may have remained from the manufacturing process. Before starting to cook, clean the range thoroughly with hot, soapy water. There may be some burn off and odors on first use of the appliance—this is normal.

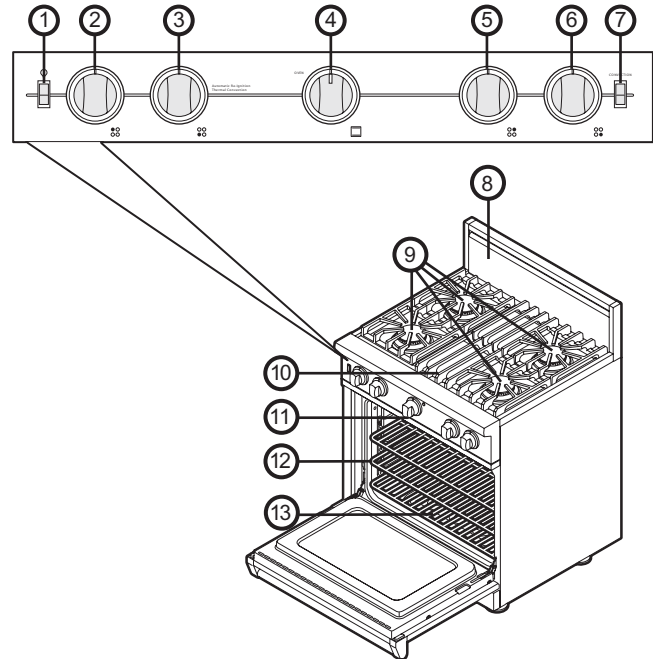
Oven

Important: Before first use, wipe interior with soapy water and dry thoroughly. Then, set the oven selector to bake, the thermostat to 450°F, and operate for an hour.

All models include:

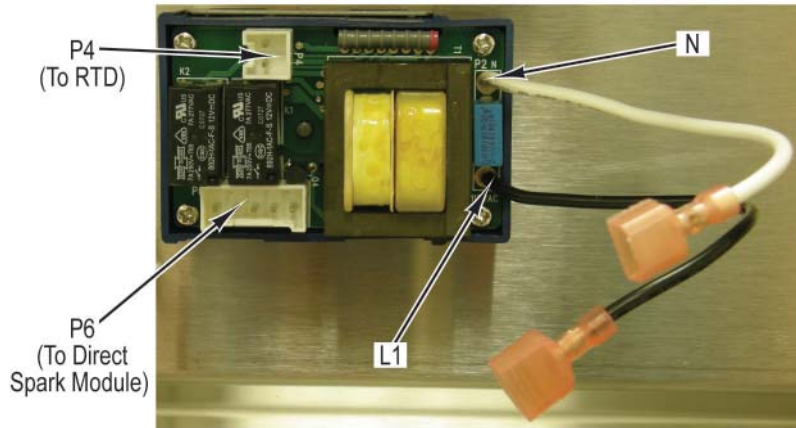
- Five performance modes—including convection baking and convection broiling—providing air circulation for shorter cooking times with even results.
- Exclusive VSH™ Pro Sealed Burner System (VariSimmer™ to High)—combination of patented burner and top design provide cleanability plus superior performance at simmer and high.
- Exclusive one-piece tooled and porcelainized cooking surface contains spills for easy cleaning.
- Convection baking with a hidden 30,000 BTU burner provides a fast, even baking for all your casserole dishes as well as easy cleanup.
- The 1500°F closed door, infrared broiler allows intense heat to sear delicate cuts of meat providing that restaurant taste.
- Four lights illuminate the oven cavity with less glare.
- Six rack positions and three racks provide ample space for your baking needs.
- This appliance is certified by Star-K to meet strict regulations in conjunction with specific instructions found on www.star-k.org.

Range Features

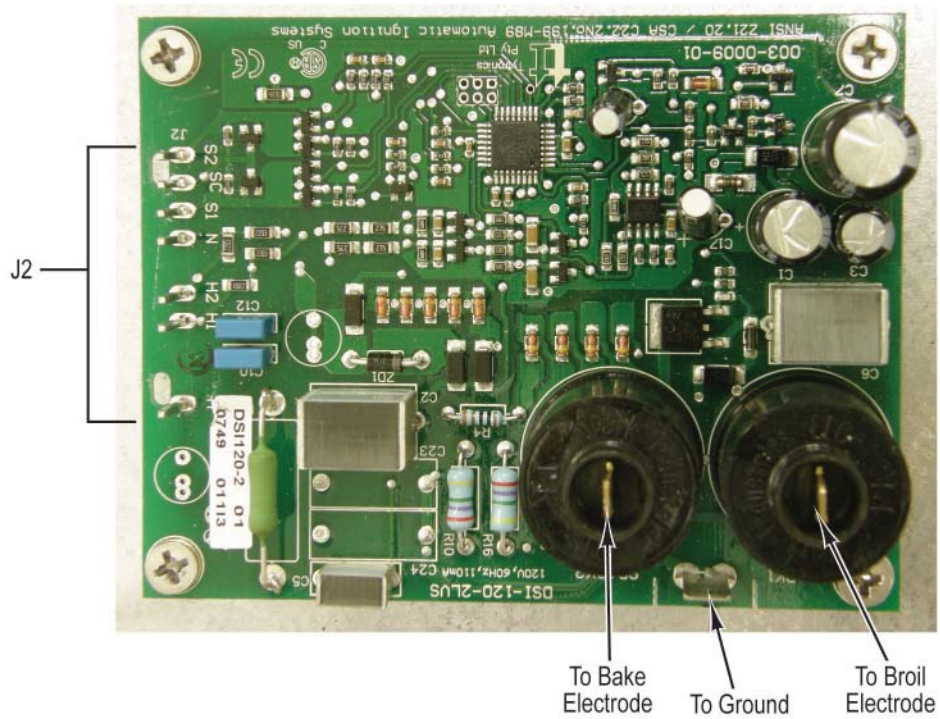


1. Interior oven light switch
2. Left rear burner control knob
3. Left front burner control knob
4. Oven temperature control/broil setting knob
5. Right rear burner control knob
6. Right front burner control knob
7. Convection fan switch
8. 8" High stainless steel backguard
9. Four 15,000 BTU sealed burners with porcelain/cast iron caps and automatic ignition/re-ignition
10. Center grate
11. Identification plate
12. Three standard heavy-duty tilt-proof racks. Six rack positions
13. Broiler pan—located inside oven

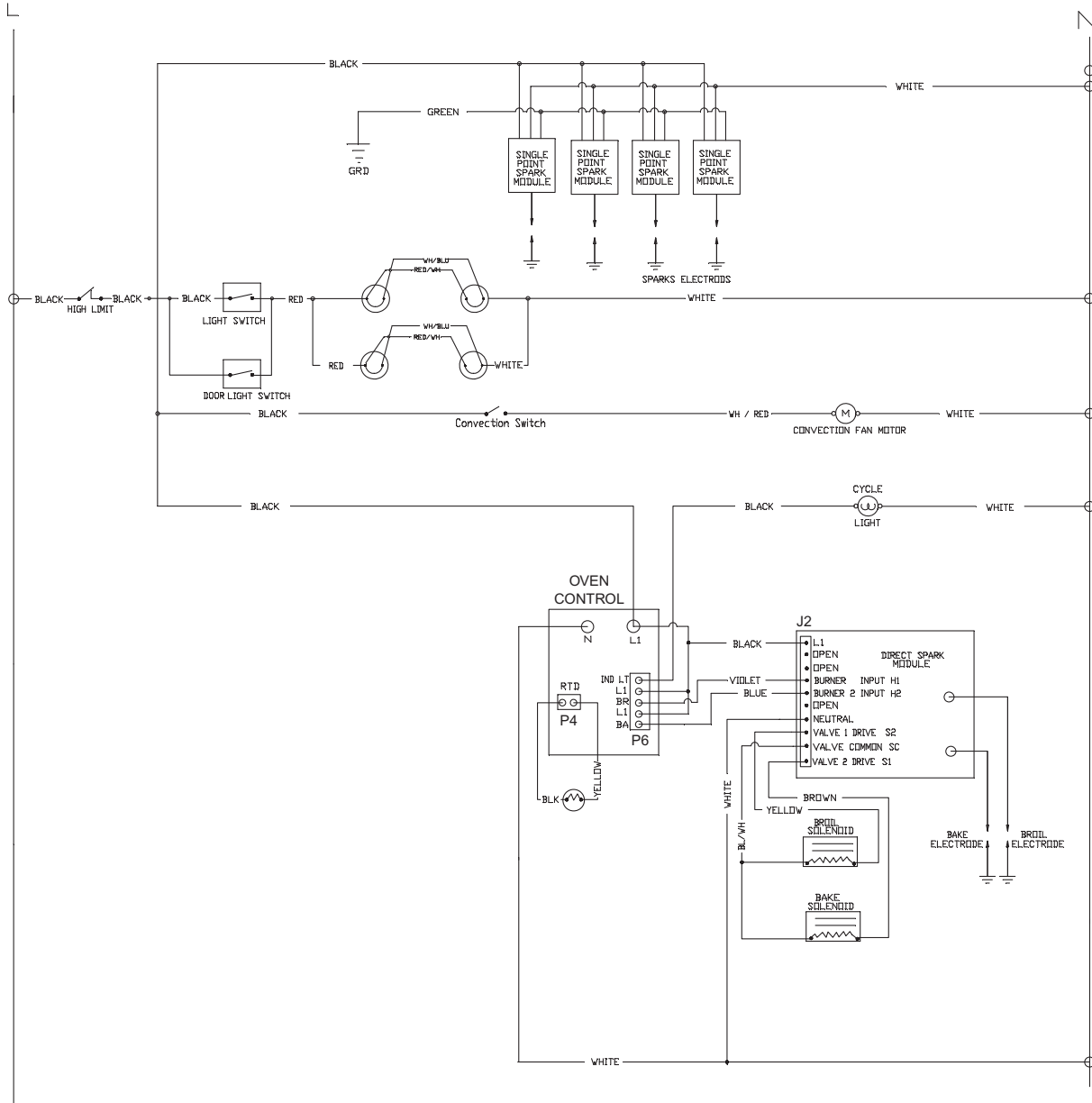
Oven Control Connections



Direct Spark Module Connections



Wiring Diagram



Oven Components

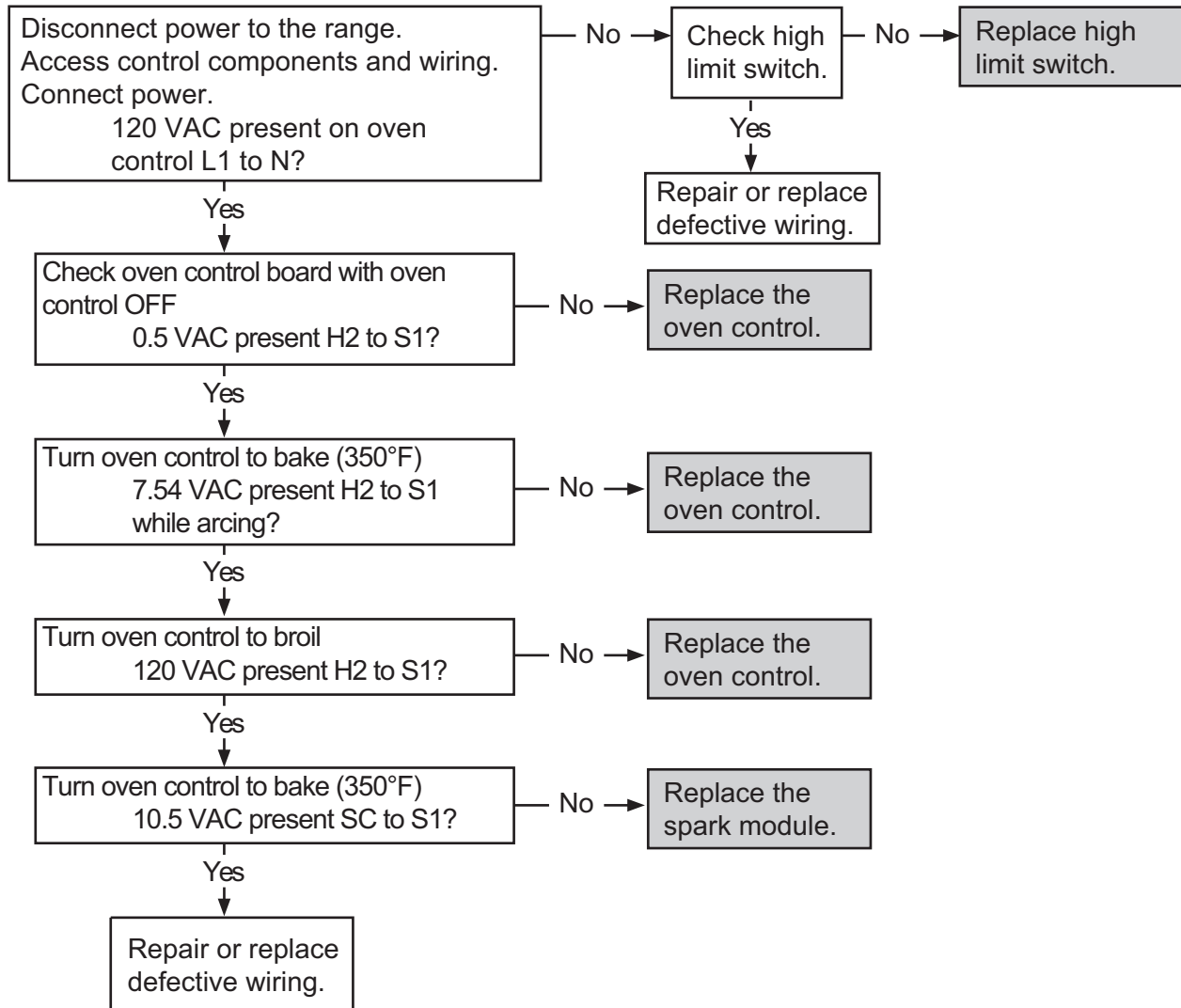
Symptom	Possible Cause	Corrective Action
Bake, broil, convection fan, oven lights, surface burner igniters inoperable	House breaker or fuse open	Reset breaker or replace fuse
	Open high limit	Replace high limit
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Bake, broil inoperable - convection fan, oven lights, surface burner igniters operate	Open or shorted RTD (cycle light flashing)	Replace RTD
	Open oven control	Replace oven control
	Open direct spark module	Replace direct spark module
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Bake inoperable - broil, convection fan, oven lights, surface burner igniters operate	Foreign objects/soil on igniter	Clean igniter and surrounding area
	Open bake solenoid	Replace bake solenoid
	Open oven control	Replace oven control
	Open direct spark module	Replace direct spark module
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Broil inoperable - bake, convection fan, oven lights, surface burner igniters operate	Foreign objects/soil on igniter	Clean igniter and surrounding area
	Open broil solenoid	Replace broil solenoid
	Open oven control	Replace oven control
	Open direct spark module	Replace direct spark module
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Convection fan inoperable - bake, broil, oven lights, surface burner igniters operate	Open convection fan switch	Replace convection fan switch
	Open convection fan motor	Replace convection fan motor
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Oven lights inoperable - bake, broil, convection fan, surface burner igniters operate	Open oven bulbs	Replace oven bulbs
	Open light switch	Replace light switch
	Open door light switch	Replace door light switch
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring

Symptom	Possible Cause	Corrective Action
Surface burner igniters inoperable - bake, broil, convection fan, oven lights operate	Foreign objects/soil on igniter	Clean igniter and surrounding area
	Open single point spark module	Replace single point spark module
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring
Igniters sparking but no flame ignition	Gas supply valve is in "OFF" position	Turn gas on
	Gas supply is interrupted	Check regulator
Igniters sparking continuously after flame ignition	Power supply is not grounded	Check grounding
	Power supply polarity is reversed	Check power source
	Igniters are wet or dirty	Clean igniters
Burner ignites, but flame is large, distorted, or yellow	Burner ports are clogged	Clean burner head
	Unit is being operated on wrong type of gas	Check gas type
Oven cycle light inoperable - bake, broil, convection fan, oven lights surface burner igniters operate	Defective cycle light (neon)	Replace cycle light
	Open oven control	Replace oven control
	Defective oven wiring (shorted, open, or burned)	Repair or replace defective wiring

WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Checking Oven Control Using Bake Selection



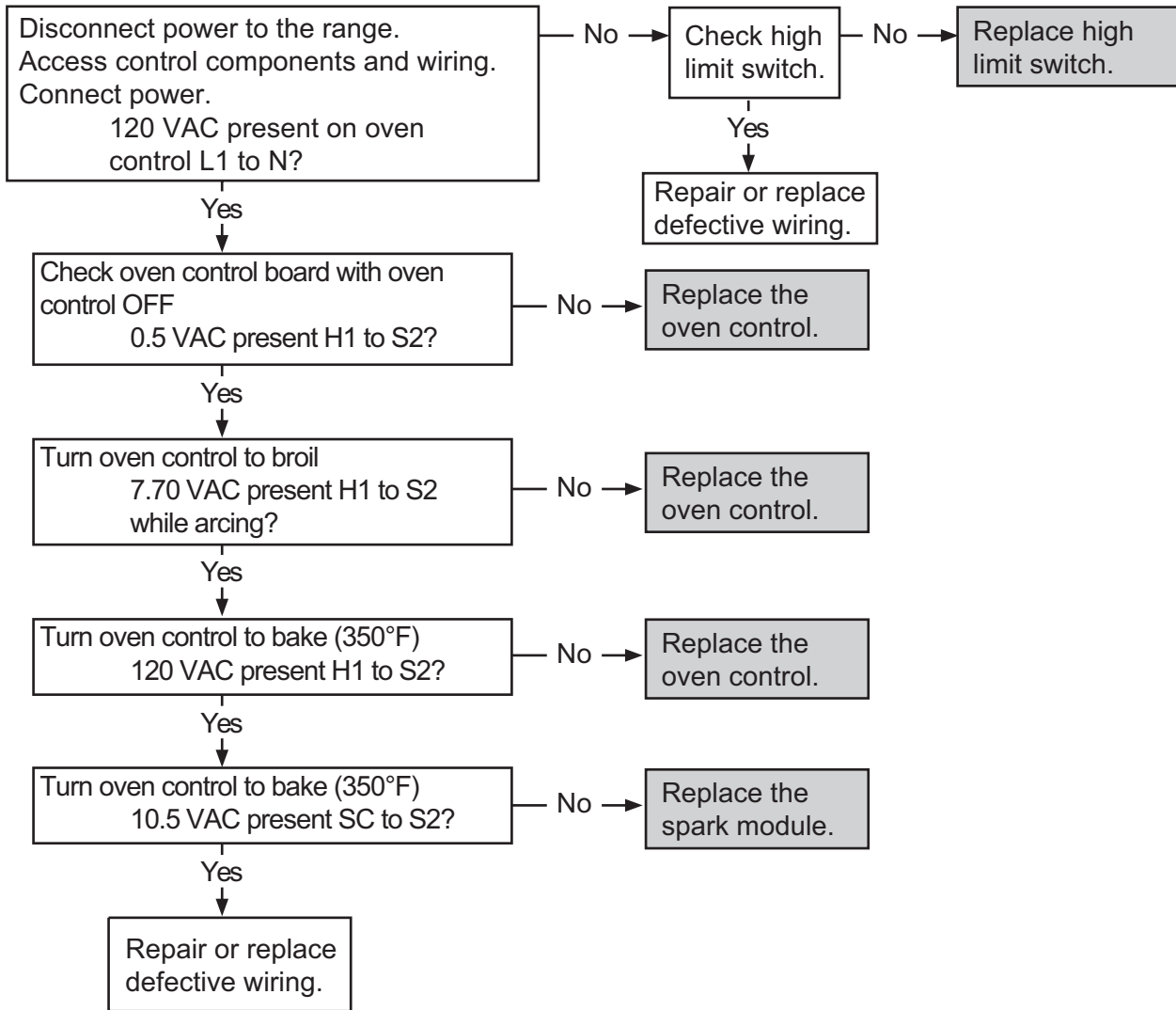
Troubleshooting



⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Checking Oven Control Using Broil Selection



Component Characteristics

Component Testing			
Component	Operating Voltage (Approximate)	*Resistance (Approximate)	Test Location
Oven Control	120 VAC	750 K Ω	L1 black - N white
Direct Spark Module - Bake selected	120 VAC	Not Applicable	Hi violet - N white
Direct Spark Module - Broil selected	120 VAC	Not Applicable	H2 blue - N white
Bake Solenoid	10.5 VAC	210 Ω	S1 brown - SC black/white
Broil Solenoid	10.5 VAC	210 Ω	S2 yellow - SC black/white
RTD (Resistive Thermal Device)	0 VAC	1090 Ω at 75°F	P4 yellow - black
Convection Motor	120 VAC	38.0 Ω	Convection switch (open) red/white - Neutral
High Limit - open contacts	120 VAC	Open	Power cord black - disconnect black
High Limit - closed contacts	0 VAC	0 Ω	Power cord black - disconnect black
Cycle Light	120 VAC	Open (neon light)	Cycle light terminals - black to white
Oven Light Switch - OFF (Door Closed)	120 VAC	Open	Oven light switch terminals - black to red
Oven Light Switch - ON (Door Closed)	0 VAC	0 Ω	Oven light switch terminals - black to red
Oven Light Switch - (Door Closed, Light Switch Open)	120 VAC	Open	Oven light switch terminals - black to red
Oven Light Switch - (Door Open, Light Switch Open)	0 VAC	0 Ω	Oven light switch terminals - black to red
Single Point Spark Module	120 VAC	Not Applicable	Single Point Spark Module - black to white

*Resistance checks made with power off.

Spark Module Test

Surface Burner Igniter Will Not Spark

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

1. Check for and remove any foreign objects/soil buildup around the igniter and operate burner again.
2. If still inoperative, disconnect power to the range.
3. Remove the control panel from the range.
4. Disconnect the wire harness from the inoperative spark module.
5. Reconnect power and test for 120 VAC from the black to the white wire.
6. If 120 VAC is present, disconnect power and reconnect wire harness. (If no 120 VAC, check wiring and high limit.)



7. Remove the grate, burner cap, and burner head.
8. Disconnect the black wire from the back of the spark module.
9. Check for 0 ohms between the black wire and the metal top of the igniter. (If open, replace wire.)



10. If 120 VAC is present in step 5 and the black igniter wire has continuity, replace the spark module.

RTD Characteristics

RTD (Resistive Thermal Device)	
Temperature (°F)	Resistance (Approximate)
50	1038
75	1090
100	1143
200	1350
300	1553
350	1654
400	1754
450	1852
500	1950
550	2047
600	2153
650	2238
700	2332
750	2425
800	2518
850	2609
900	2700

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Door Assembly Removal

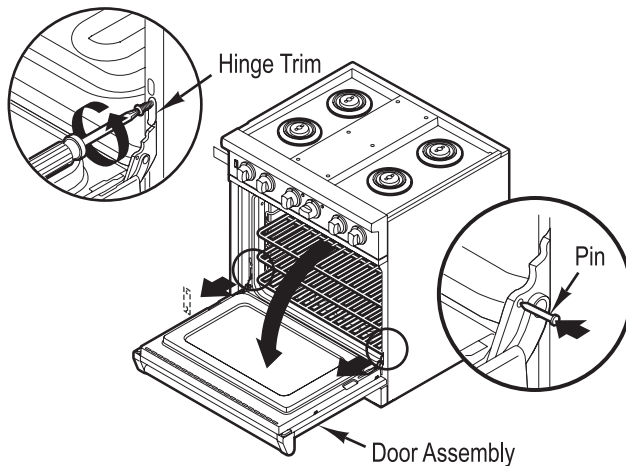
Condition Requirements:

Door Lowered

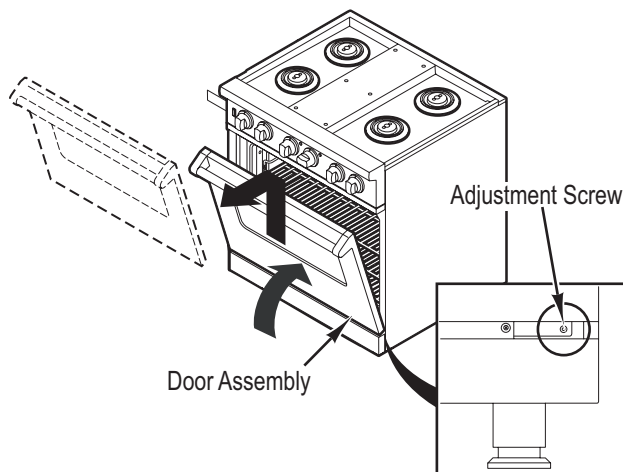
1. Place pins supplied with unit in pin holes.

Note: For personal safety, only use pins supplied with unit.

2. Remove screws and hinge trim from range.
3. Close door until pins stop door.



4. Lift door up and out.



Note: If the door needs to be adjusted, loosen hinge trim screws. Adjust the screws located between the door and kick plate using a $\frac{5}{32}$ " hex head allen wrench. Tighten hinge trim screws after adjustment is made.

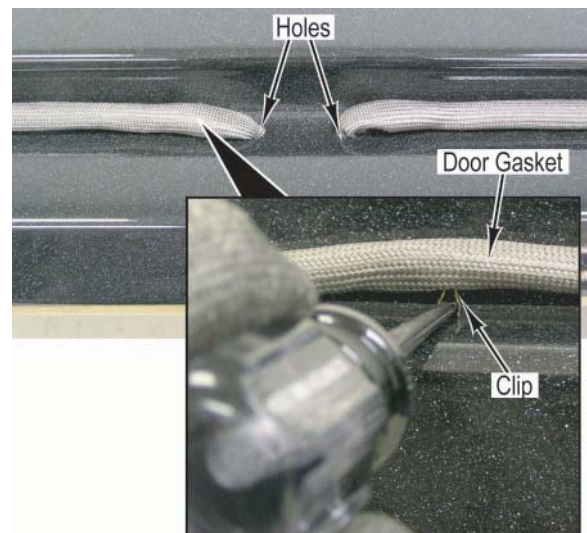
5. Reverse procedure for installation.

Door Gasket Removal

Condition Requirements:

Door Lowered

1. Insert a narrow tool or small flat-blade screwdriver into the center of each clip and pry upward.
2. Remove the door gasket from two holes in the bottom of the door liner.



3. Reverse procedure for installation.

⚠ WARNING

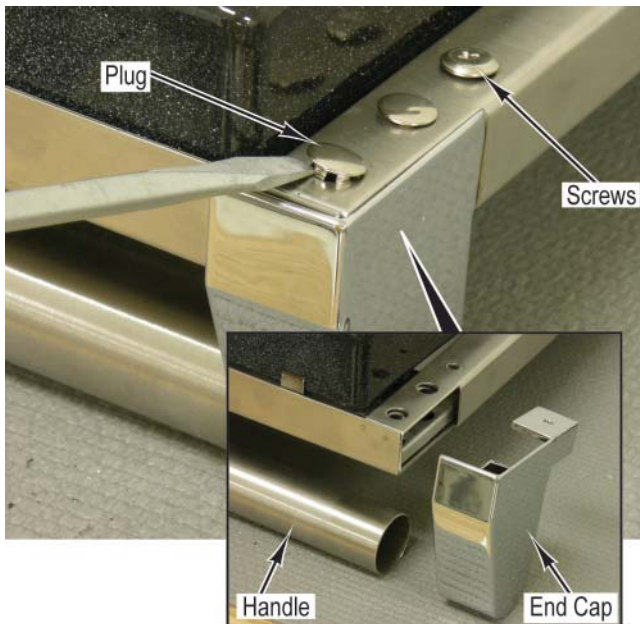
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Door Handle Removal

Condition Requirements:

Door Lowered

1. Remove two plugs from each side of door assembly.
2. Remove three screws from each door handle end cap.
3. Pull end cap up then out to remove from handle.



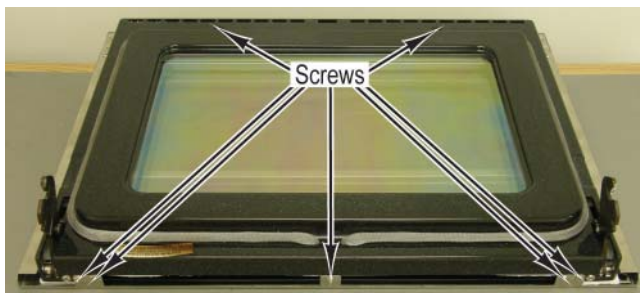
4. Reverse procedure for installation.

Outer Door Panel Assembly Removal

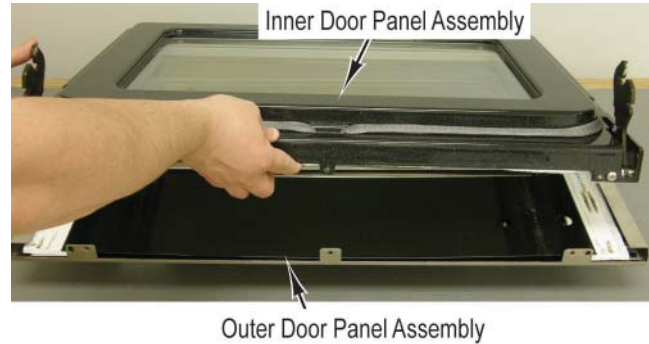
Condition Requirements:

Door Assembly Removed

1. Place the door, handle side down, on a protected surface.
2. Remove seven screws that attach the outer door panel assembly to the inner door panel assembly.



3. Lift the inner door panel assembly from the outer door panel assembly.



4. Reverse procedure for installation.

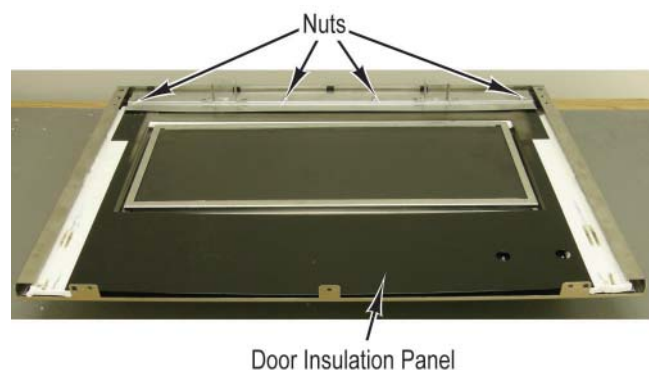
Outer Door Glass Removal

Condition Requirements:

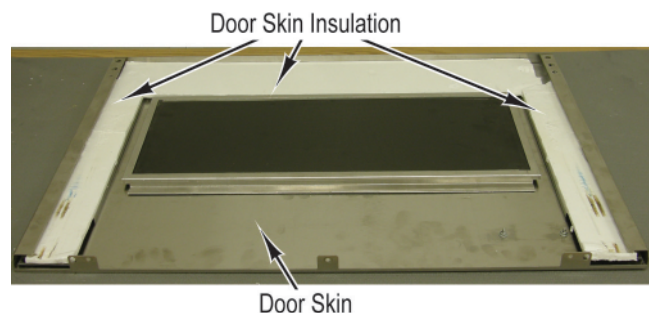
Outer Door Panel Assembly Removed

Door Handle Removed

1. Remove four locknuts and door insulation bracket from door insulation panel.
2. Remove door insulation panel by sliding toward the bottom of the door skin.



3. Remove door skin insulation from door skin.



WARNING

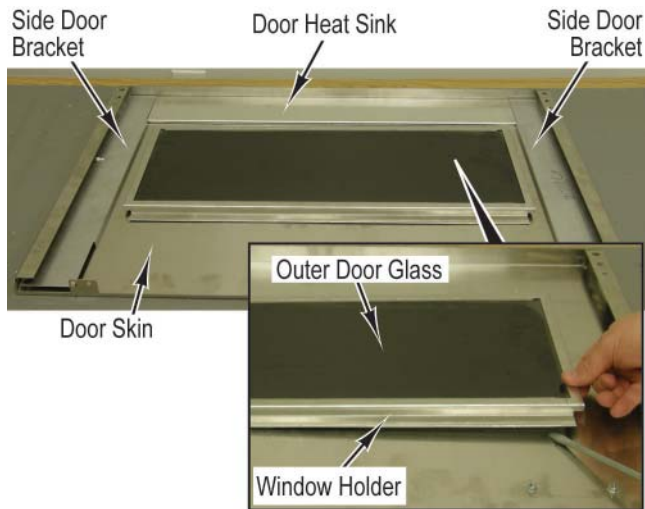
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

4. Remove side door brackets and door heat sink from door skin.
5. Remove window holder and outer door glass from door skin.

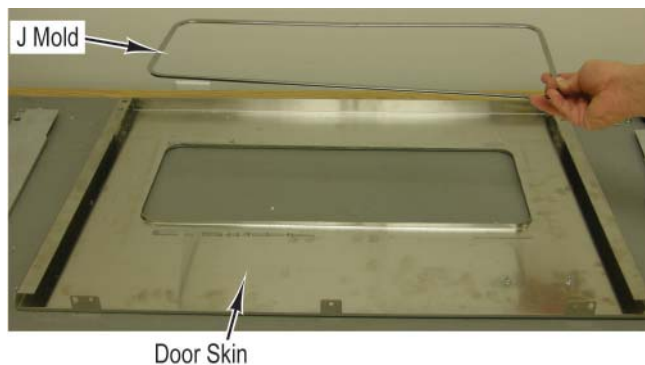
Note: The window holder is secured with double-sided tape. Use care when removing from door skin.

6. Remove outer door glass from window holder.

Note: The outer door glass is secured with double-sided tape. Use care when removing from window holder.



7. Remove J mold from door skin.



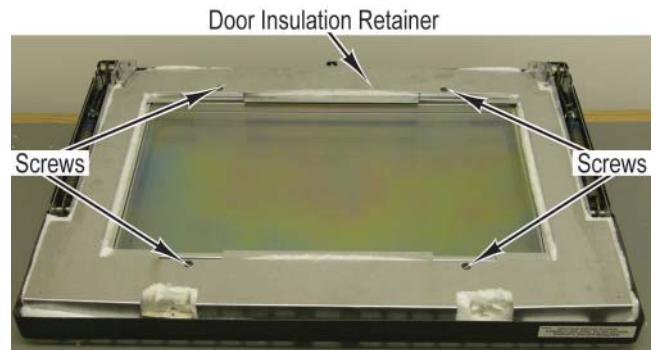
8. Reverse procedure for installation.

Inner Door Glass Removal

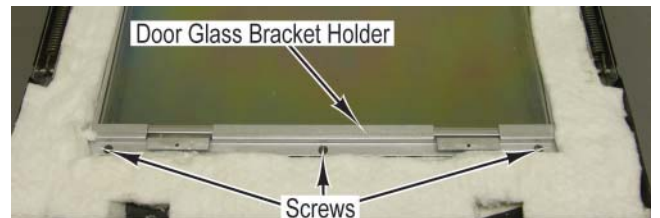
Condition Requirements:

Outer Door Panel Assembly Removed

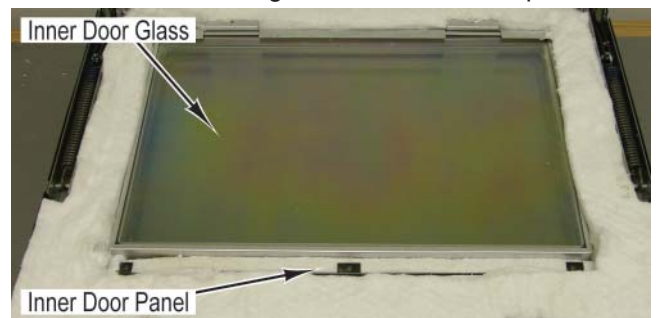
1. Remove four screws and door insulation retainer from door glass bracket holders.



2. Remove three screws and door glass bracket holder from inner door panel.



3. Remove inner door glass from inner door panel.



4. Remove black fiberglass rope from inner door panel.



Note: Use care with insulation, make sure to replace any damaged or missing insulation. Keep vent on inner door panel clear of insulation.

5. Reverse procedure for installation.

⚠ WARNING

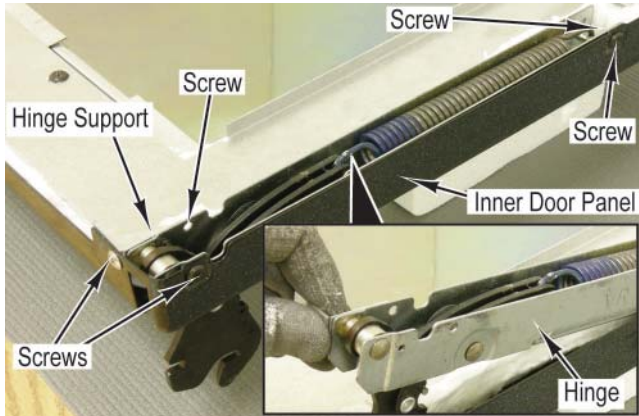
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Door Hinge Removal

Condition Requirements:

Outer Door Panel Assembly Removed

1. Remove four screws and hinge from inner door panel.
2. Remove screw and hinge support from hinge.



Note: Use care with insulation, make sure to replace any damaged or missing insulation. Keep vent on inner door panel clear of insulation.

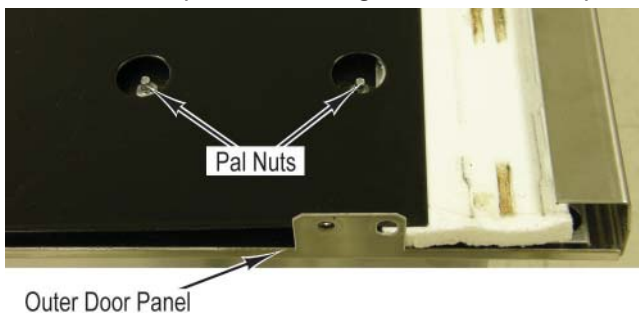
3. Reverse procedure for installation.

Door Logo Removal

Condition Requirements:

Outer Door Panel Assembly Removed

1. Remove two pal nuts and logo from outer door panel.



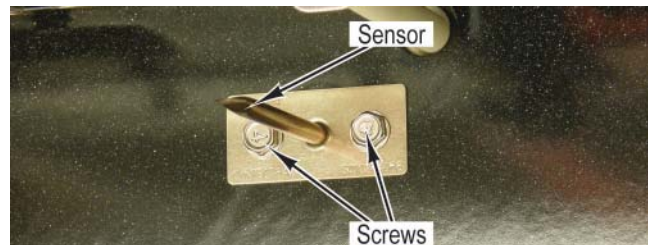
2. Reverse procedure for installation.

Temperature Sensor (RTD) Removal

Condition Requirements:

Door Assembly Removed

1. Remove two screws that attach the sensor to the back of the oven liner.

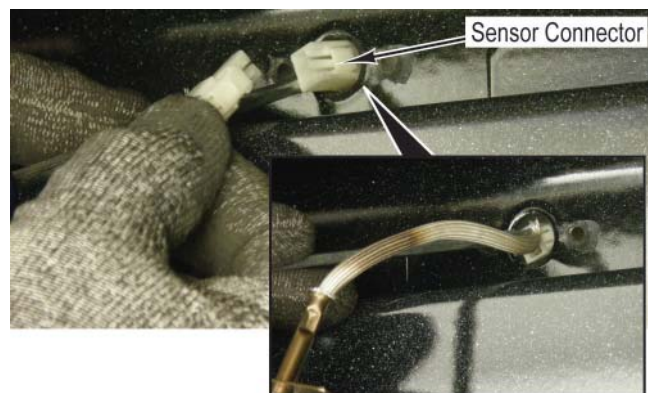


2. Pull the sensor from the liner until the sensor connector protrudes into the oven cavity.

Note: The connector will not come through the hole in the oven liner.

3. Apply side pressure to the sensor connector to secure the connector against the opening in the oven liner.
4. While maintaining side pressure on the connector, disconnect the old sensor and connect the new sensor.

Note: When installing the oven sensor, it may be helpful to insert a small screwdriver or awl into the connector and push the wiring and connector into place.



5. Install two screws that attach the sensor to the back of the oven liner.

⚠ WARNING

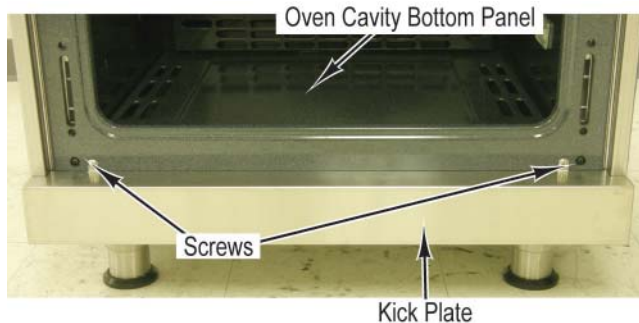
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Bake Burner Igniter Removal

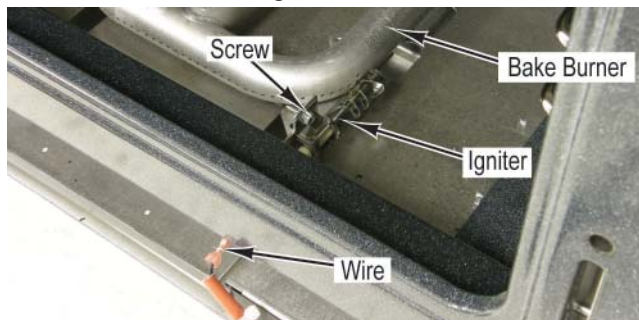
Condition Requirements:

Door Assembly Removed

1. Remove two screws and lift kick plate from keyhole screws.
2. Lift to remove oven cavity bottom panel from range.



3. Disconnect wire from igniter.
4. Remove screw and igniter from bake burner.



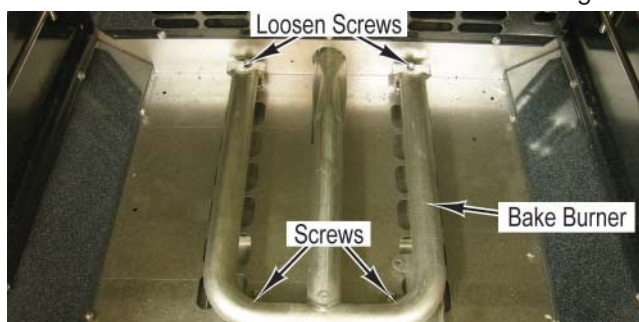
5. Reverse procedure for installation.

Bake Burner Removal

Condition Requirements:

Bake Burner Igniter Removed

1. Loosen two screws that secure bake burner in rear of cavity.
2. Remove two screws and bake burner from range.



3. Reverse procedure for installation.

Bake Burner Orifice Removal

Condition Requirements:

Bake Burner Removed

1. Remove orifice from manifold.



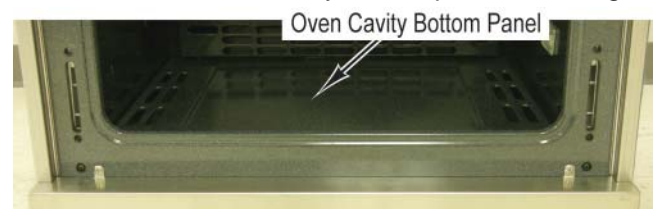
2. Reverse procedure for installation.

Convection Fan Assembly Removal

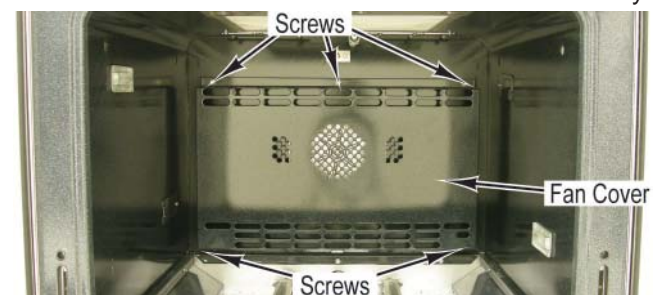
Condition Requirements:

Rack Supports Removed

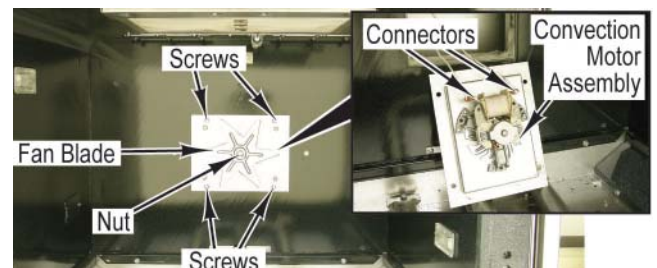
1. Lift to remove oven cavity bottom panel from range.



2. Remove five screws and fan cover from oven cavity.



2. Remove four outer screws and convection motor assembly from oven cavity.
3. Mark and disconnect two connectors from convection motor assembly.
4. Remove nut and fan blade from convection fan.



5. Reverse procedure for installation.

⚠ WARNING

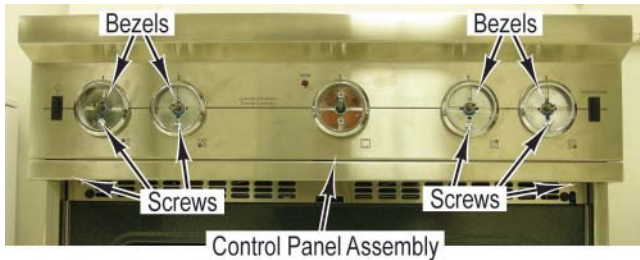
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Control Components Accessed

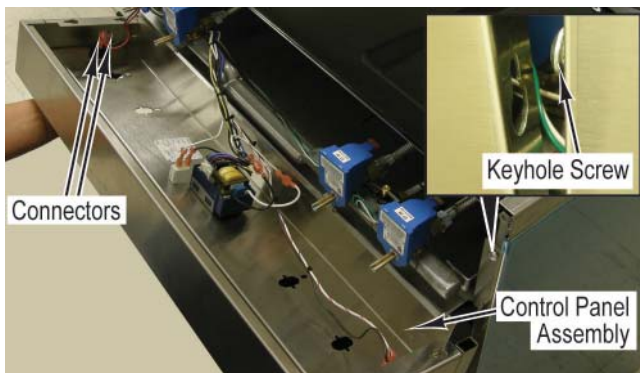
Condition Requirements:

Door Lowered

1. Remove all knobs.
2. Remove four screws and bezels from control panel assembly.
3. Remove two screws from control panel assembly.



4. Lift up to remove control panel assembly from two keyhole screws.
5. Tilt control panel assembly forward.
6. Mark and disconnect two connectors from the light switch.



7. Place control panel assembly on top of range.



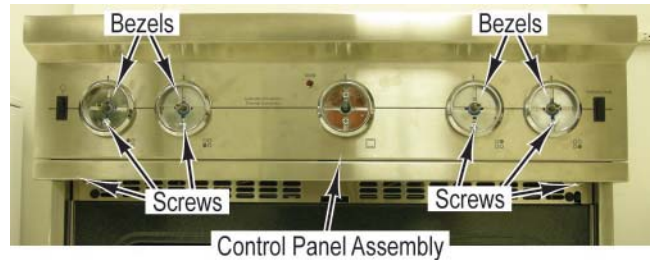
8. Reverse procedure for installation.

Control Panel Assembly Removal

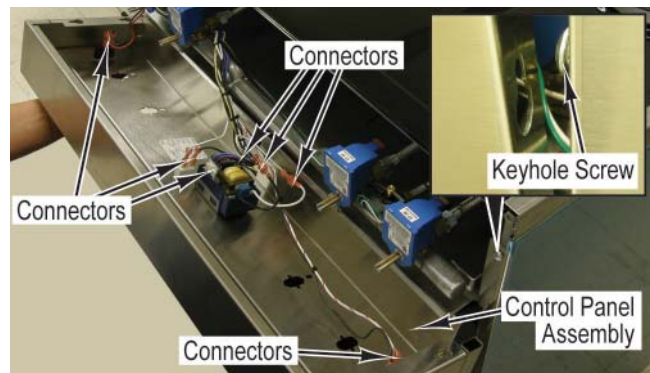
Condition Requirements:

Door Lowered

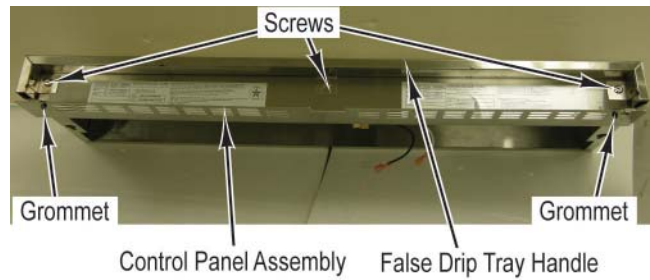
1. Remove all knobs.
2. Remove four screws and bezels from control panel assembly.
3. Remove two screws from control panel assembly.



4. Lift up to remove control panel assembly from two keyhole screws.
5. Tilt control panel assembly forward.
6. Mark and disconnect all connectors to remove control panel from range.



7. Remove grommets from control panel assembly.
8. Remove three screws and false drip tray handle from control panel assembly.



9. Reverse procedure for installation.

⚠ WARNING

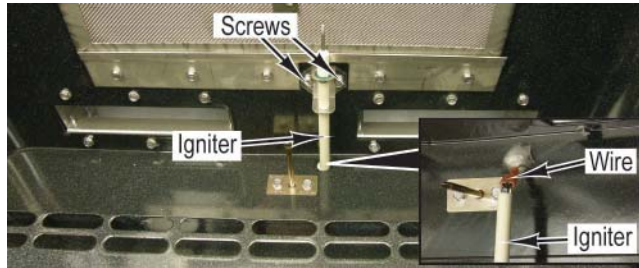
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Broil Burner Igniter Removal

Condition Requirements:

Door Assembly Removed

1. Remove two screws and pull igniter wire into oven cavity.
2. Disconnect wire to remove igniter from range.



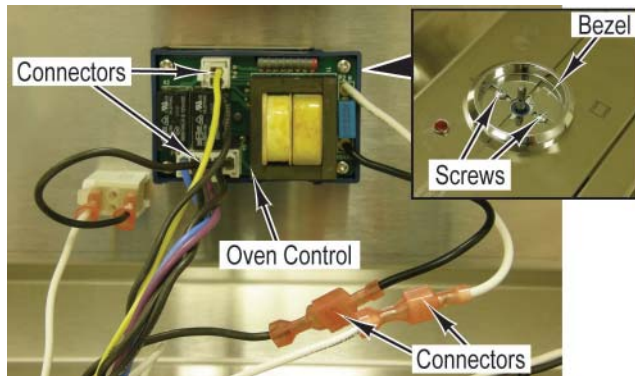
3. Reverse procedure for installation.

Oven Control Removal

Condition Requirements:

Control Components Accessed

1. Mark and disconnect four connectors from the oven control.
2. Remove two screws, bezel, and the oven control from the control panel assembly.



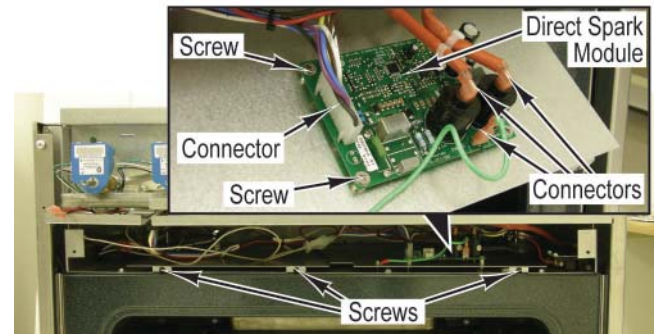
3. Reverse procedure for installation.

Direct Spark Module Removal

Condition Requirements:

Control Components Accessed

1. Remove three screws and slide component tray forward.
2. Mark and disconnect four connectors from direct spark module.
3. Remove four screws and direct spark module from component tray.



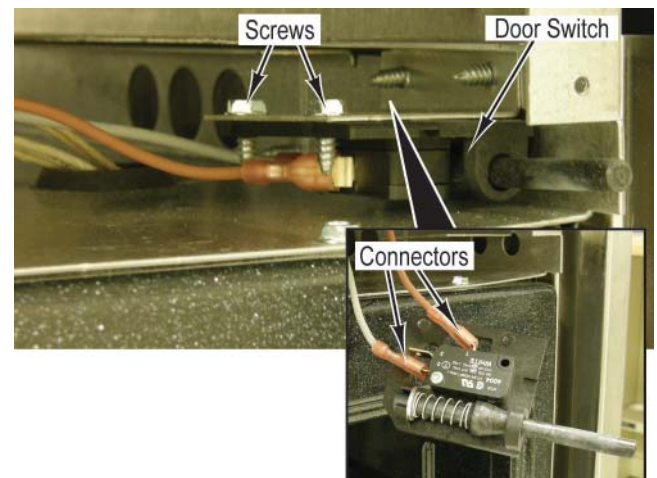
4. Reverse procedure for installation.

Door Switch Removal

Condition Requirements:

Control Components Accessed

1. Remove two screws and door switch from range.
2. Mark and disconnect two connectors from door switch.



3. Reverse procedure for installation.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Oven Light Bulb Removal

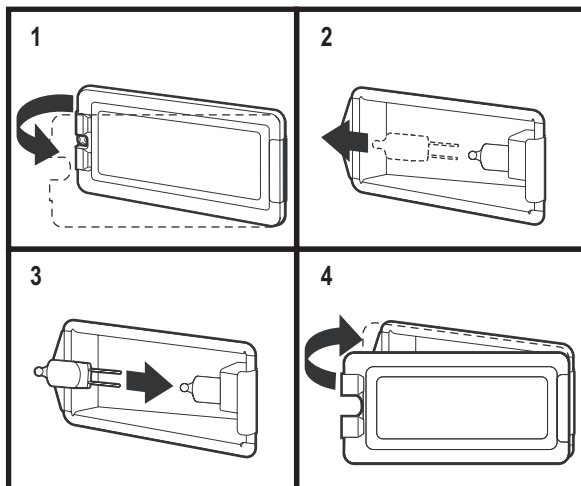
Condition Requirements:

Door Lowered

⚠ CAUTION

DO NOT touch bulb with bare hands. Clean off any signs of oil from the bulb and handle with a soft cloth.

1. Unsnap glass light cover using a screwdriver in the access groove.
2. Firmly grasp light bulb and pull out.
3. Replace with halogen bulb using volt and wattage requirements listed on glass cover.
4. Replace the light cover by snapping glass cover onto metal box.

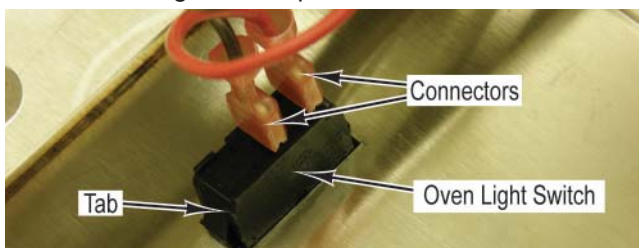


Oven Light Switch Removal

Condition Requirements:

Control Components Accessed

1. Mark and disconnect two connectors from light switch.
2. Press tabs on both ends of the switch and push switch through control panel.



3. Reverse procedure for installation.

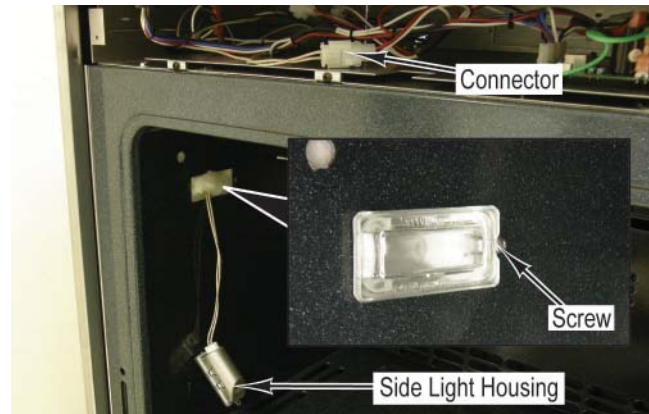
Side Light Housing Removal

Condition Requirements:

Door Assembly Removed

Control Components Accessed

1. Disconnect connector for side light housing.
2. Remove screw and side light housing from oven liner.



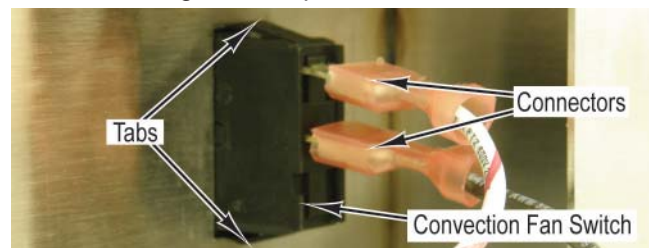
3. Reverse procedure for installation.

Convection Fan Switch Removal

Condition Requirements:

Control Components Accessed

1. Mark and disconnect two connectors from convection fan switch.
2. Press tabs on both ends of the switch and push switch through control panel.



3. Reverse procedure for installation.

⚠ WARNING

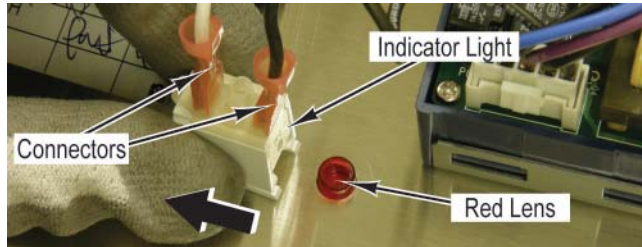
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Oven On Indicator Light Removal

Condition Requirements:

Control Components Accessed

1. Hold the red lens and slide off the indicator light. The indicator light will only slide in one direction.
2. Disconnect two connectors from the indicator light.



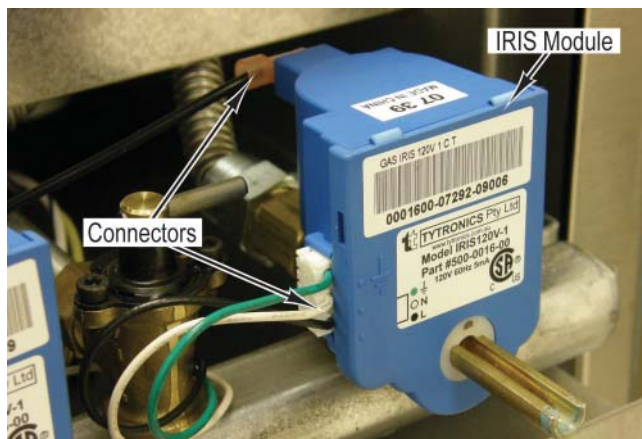
3. Reverse procedure for installation.

IRIS Module Removal

Condition Requirements:

Control Panel Assembly Removed

1. Disconnect connectors from module.
2. Pull to remove module from burner valve.



3. Reverse procedure for installation.

Surface Burner Valve Removal

Condition Requirements:

Control Panel Assembly Removed

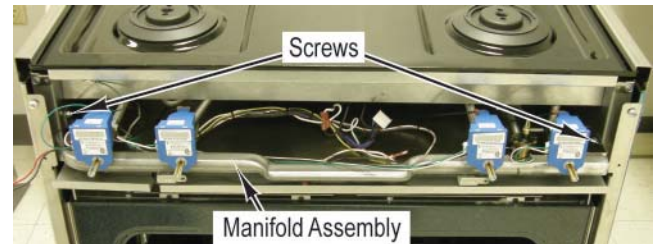
Gas Shut Off

⚠ DANGER

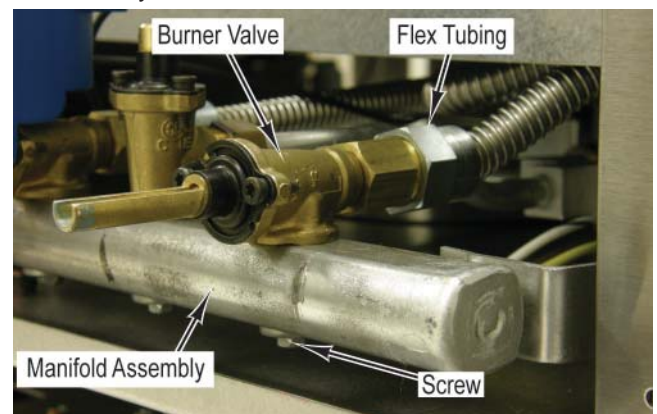
Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove two screws that secure manifold assembly to range.



2. Pull to remove spark module from burner valve.
3. Remove flex tubing from burner valve.
4. Remove screw and burner valve from manifold assembly.



5. Reverse procedure for installation.
6. Perform gas leak test.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Bake/Broil Gas Shutoff Valve Removal

Condition Requirements:

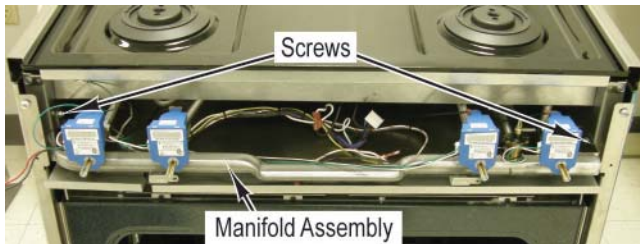
- Control Panel Assembly Removed
- Gas Shut Off

⚠ DANGER

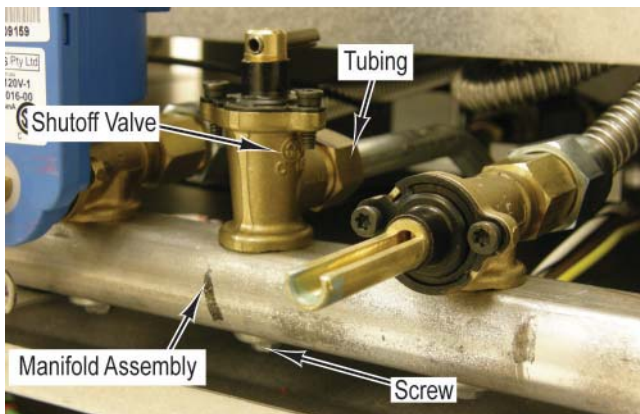
Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove two screws that secure manifold assembly to range.



2. Pull to remove module from burner valve.
3. Remove tubing from shutoff valve.
4. Remove screw and shutoff valve from manifold assembly.



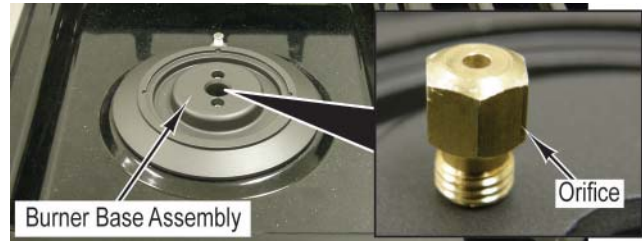
5. Reverse procedure for installation.
6. Perform gas leak test.

Orifice Removal

Condition Requirements:

None

1. Remove grates, burner cap, and burner head from burner base assembly.
2. Remove orifice from jet holder.



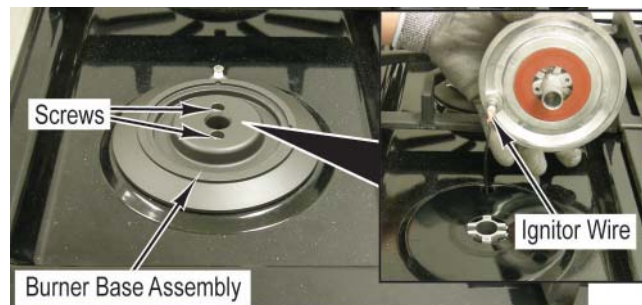
3. Reverse procedure for installation.

Burner Base Assembly Removal

Condition Requirements:

None

1. Remove grates, burner cap, and burner head from burner base assembly.
2. Remove two screws and lift burner base assembly from range.
3. Disconnect wire from burner base assembly.



4. Reverse procedure for installation.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Backguard Assembly Removal

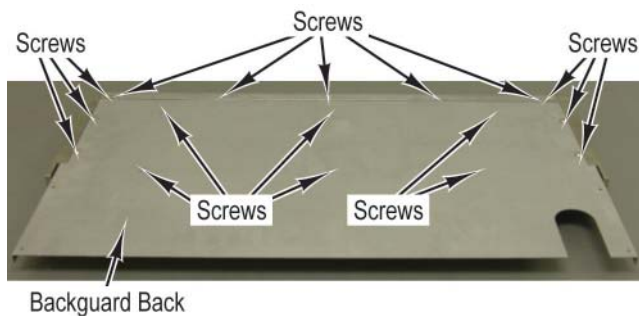
Condition Requirements:

Rear of Range Accessed

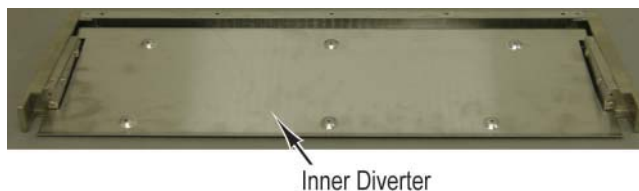
1. Remove four screws and backguard assembly from range.



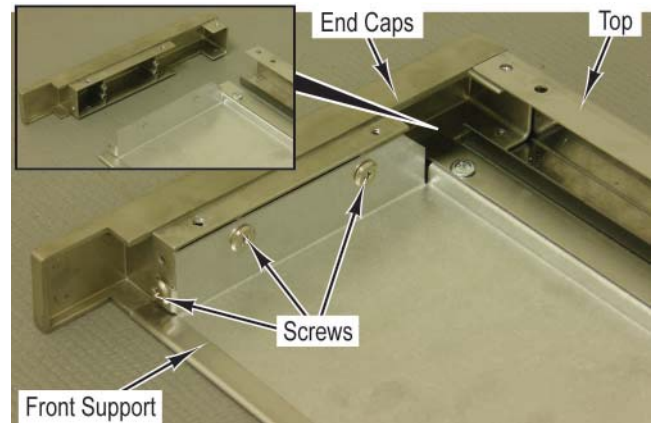
2. Place backguard assembly on suitable work surface.
3. Remove 17 screws and back.



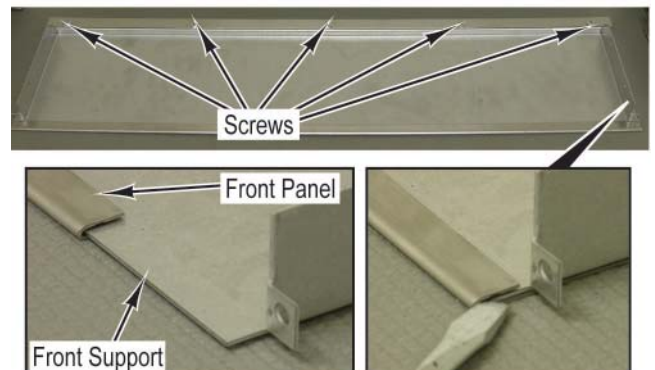
4. Remove inner diverter.



5. Remove six screws, end caps, and top from front support.



6. Remove five screws and slide front support from front panel.



Note: Pry corner of front panel slightly to allow front support to slide from the front panel.

7. Reverse procedure for installation.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

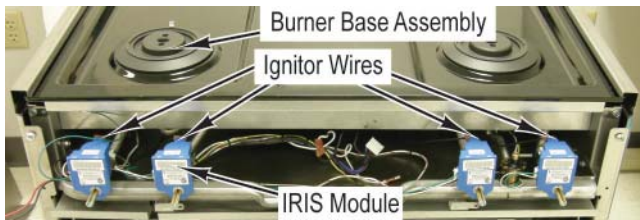
Main Top Removal

Condition Requirements:

Control Panel Assembly Removed

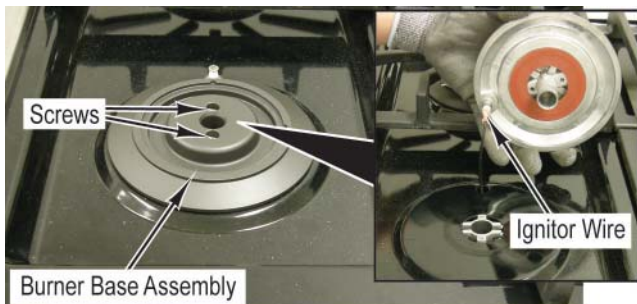
Backguard Assembly Removed

1. Remove grates, burner caps, and burner heads from each burner base assembly.
2. Mark and disconnect ignition wire from each IRIS module.

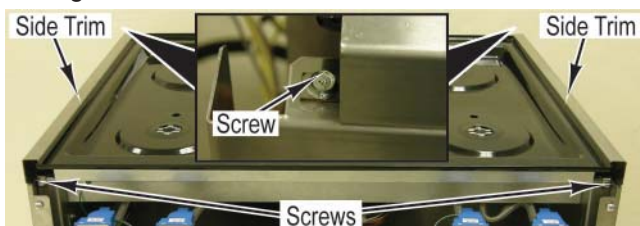


3. Remove two screws from each burner base assembly.
4. Lift each burner base assembly up to remove from range.

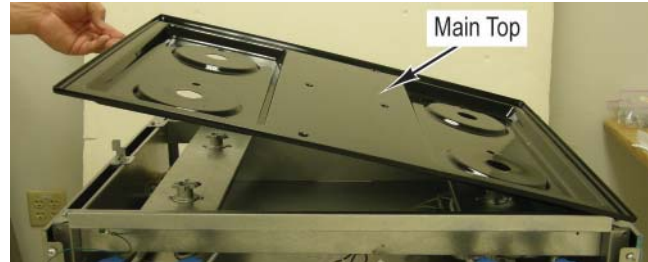
Note: Keep igniter wires attached to each burner base assembly.



5. Remove two screws and side trim from each side of range.



6. Lift main top from range.



7. Reverse procedure for installation.

Jet Holder Removal

Condition Requirements:

Main Top Removed

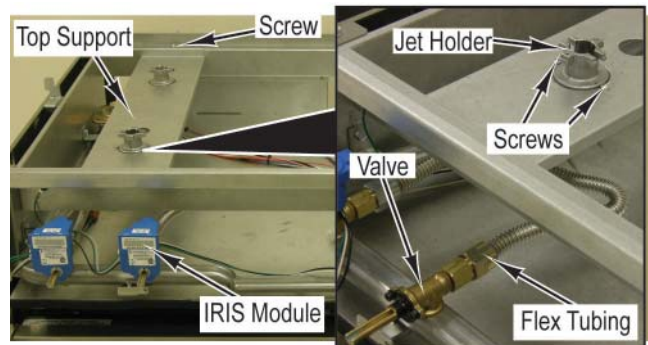
Gas Shut Off

⚠ DANGER

Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove IRIS module from valve.
2. Disconnect flex tubing from valve.
3. Remove two screws and jet holder from top support.
4. Remove flex tubing from jet holder.
5. Remove screw and top support from range.



6. Reverse procedure for installation.
7. Perform gas leak test.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Gas Solenoid Valve Removal

Condition Requirements:

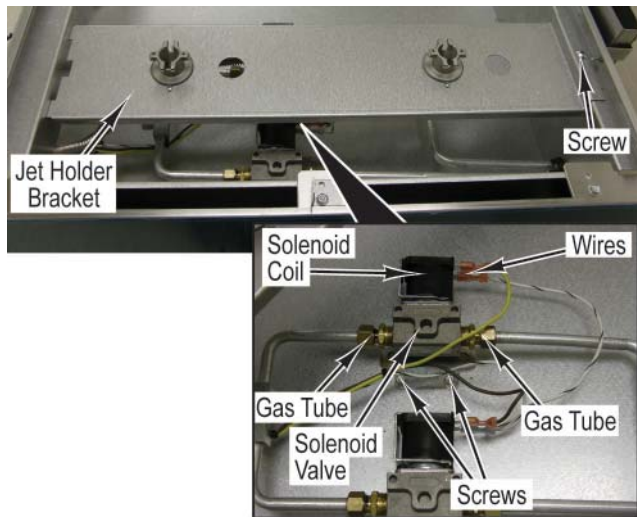
- Main Top Removed
- Gas Supply Disconnected

⚠ DANGER

Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove screw and position jet holder bracket out of way.
2. Mark and disconnect two wires from solenoid coil.
3. Remove two gas tubes from solenoid valve.
4. Remove two screws and solenoid valve from range.



5. Reverse procedure for installation.
6. Perform gas leak test.

Manifold Assembly Removal

Condition Requirements:

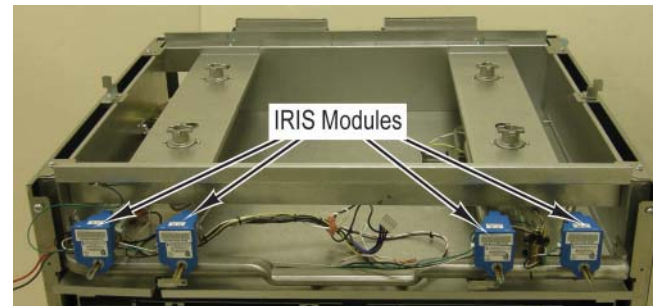
- Main Top Removed
- Gas Supply Disconnected

⚠ DANGER

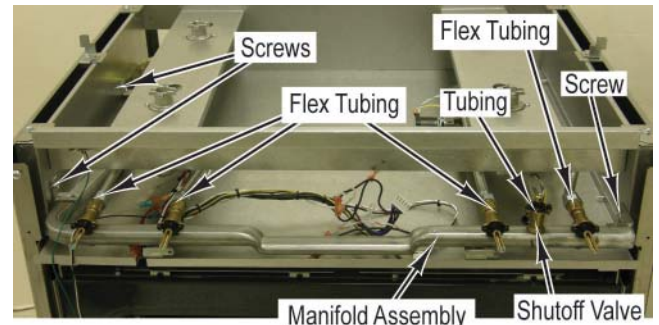
Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove all IRIS modules from valves.



2. Disconnect flex tubing from each valve.
3. Disconnect tubing from shutoff valve.
4. Remove three screws and manifold assembly from range.



5. Reverse procedure for installation.
6. Perform gas leak test.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Pressure Regulator Removal

Condition Requirements:

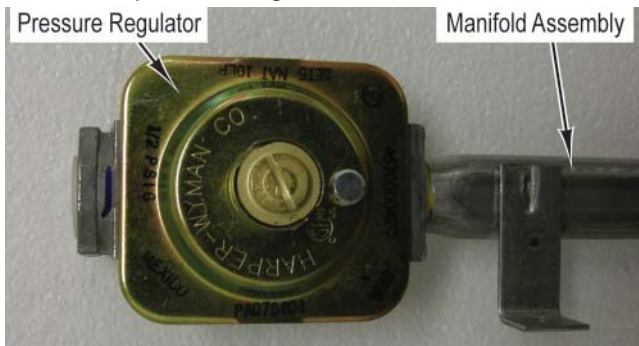
Manifold Assembly Removed

⚠ DANGER

Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

1. Remove pressure regulator from manifold.



2. Reverse procedure for installation.
3. Perform gas leak test.

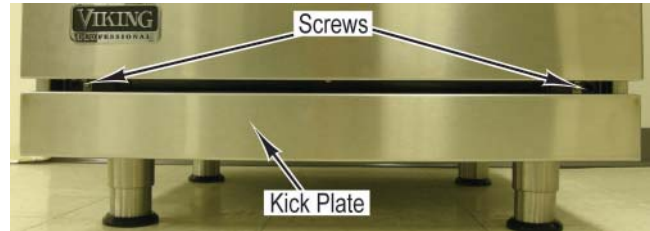
Side Trim and Side Panel Removal

Condition Requirements:

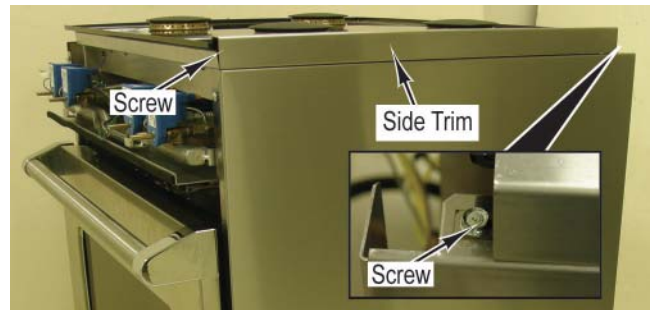
Control Panel Assembly Removed

Backguard Assembly Removed

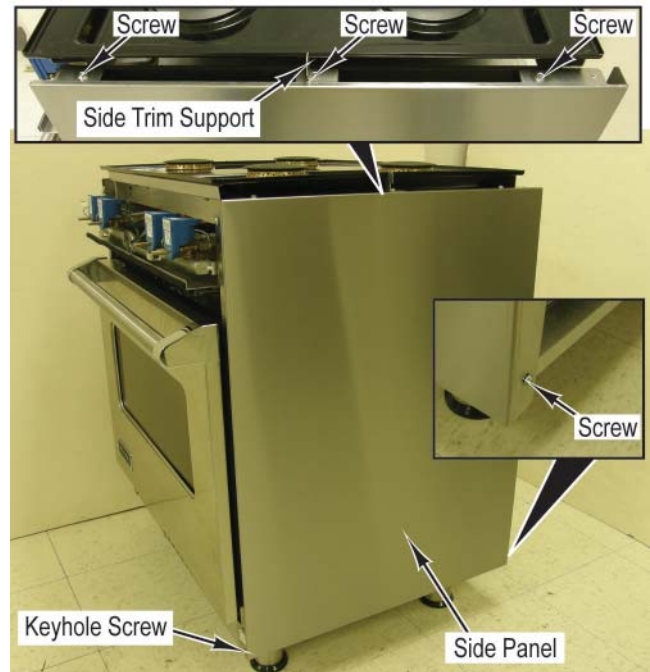
1. Remove two screws and lift kick plate from keyhole screws.



2. Remove two screws and side trim from range.



3. Remove screw and side trim support from range.
4. Remove four screws and side panel from range.



5. Reverse procedure for installation.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

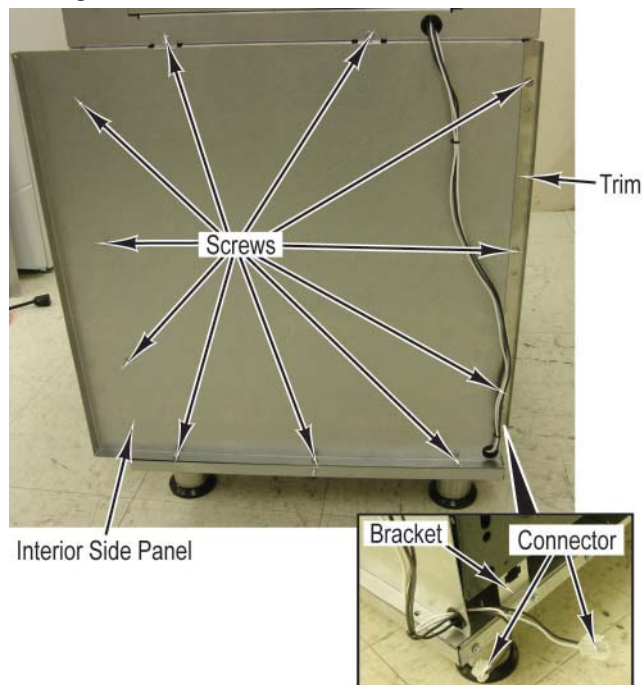
Hinge Receiver Removal (Left Side Shown)

Condition Requirements:

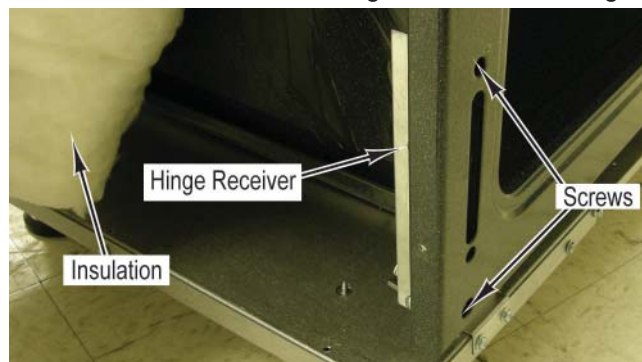
Door Assembly Removed

Side Panel Removed

1. Disconnect connector from bracket.
2. Remove 11 screws, trim, and interior side panel from range.



3. Pull back insulation to access hinge receiver.
4. Remove two screws and hinge receiver from range.



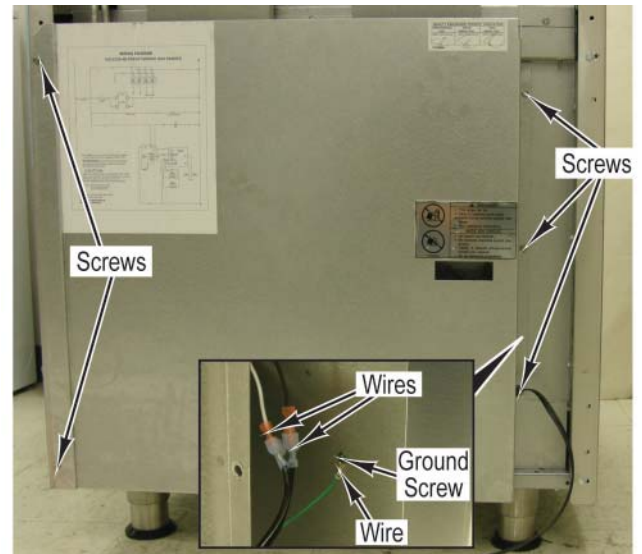
5. Reverse procedure for installation.

Back Panel Removal

Condition Requirements:

Backguard Assembly Removed

1. Remove five screws and back panel from range.
2. Mark and disconnect two wires.
3. Remove ground screw and wire from range.



4. Reverse procedure for installation.

⚠ WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Gas Tubing For Bake Burner Removal

Condition Requirements:

- Main Top Removed
- Back Panel Removed
- Gas Supply Disconnected

Gas Tubing For Broil Burner Removal

Condition Requirements:

- Main Top Removed
- Back Panel Removed
- Gas Supply Disconnected

⚠ DANGER

Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

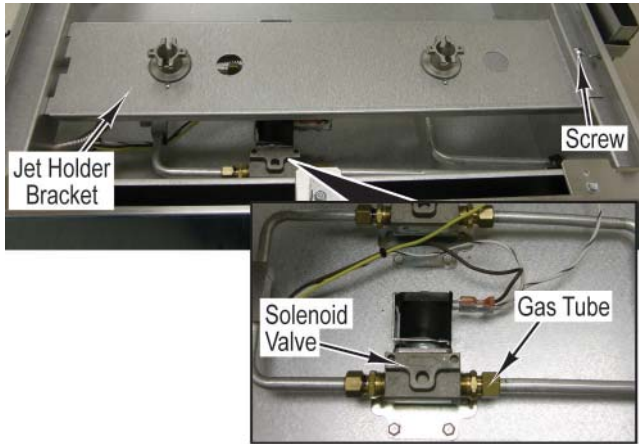
DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

⚠ DANGER

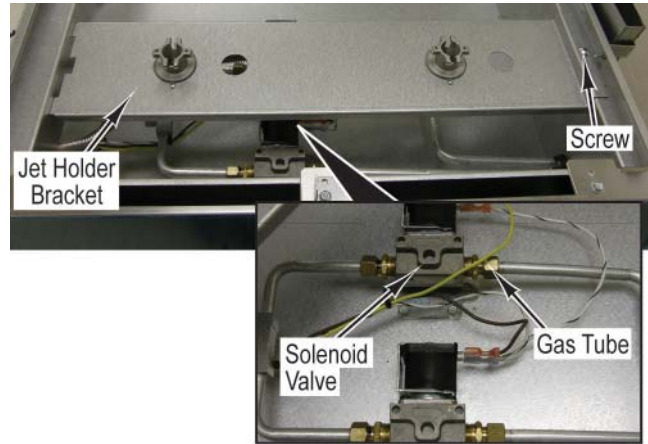
Gas leak hazard. To avoid risk of personal injury or death, leak testing of the appliance must be conducted according to the manufacturer's instructions. Before placing appliance in operation, always check for gas leaks with soapy water solution.

DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS.

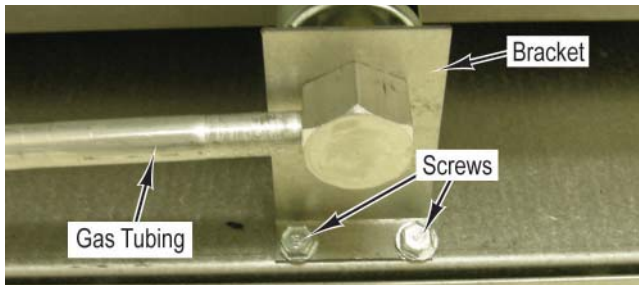
1. Remove screw and position jet holder bracket out of way.
2. Remove gas tube from solenoid valve.



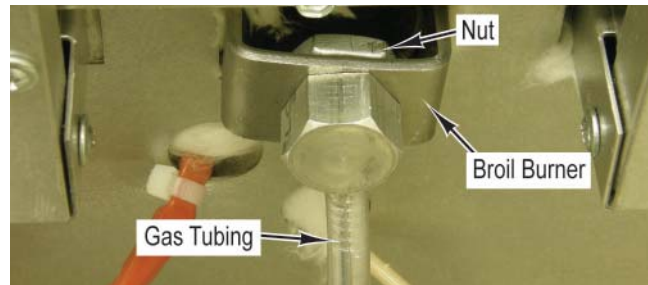
1. Remove screw and position jet holder bracket out of way.
2. Remove gas tube from solenoid valve.



3. Remove two screws, bracket and gas tubing from range.



3. Remove nut from broil burner and gas tubing from range.



4. Reverse procedure for installation.
5. Perform gas leak test.

4. Reverse procedure for installation.
5. Perform gas leak test.

⚠ WARNING

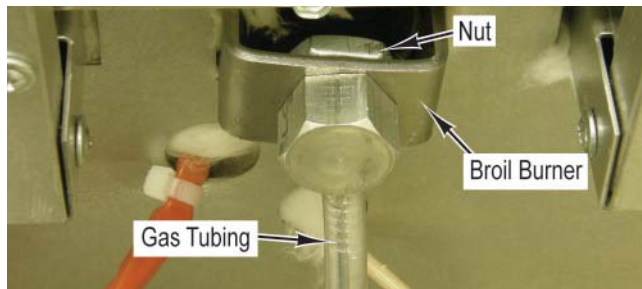
To avoid risk of electrical shock, personal injury, or death, disconnect electrical power source to unit, unless test procedures require power to be connected. Discharge capacitor through a resistor before attempting to service. Ensure all ground wires are connected before certifying unit as repaired and/or operational.

Broil Burner Removal**Condition Requirements:**

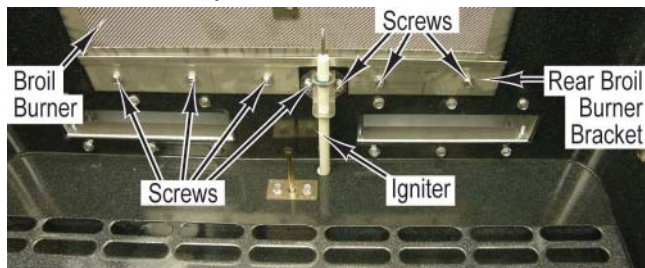
Door Assembly Removed

Back Panel Removed

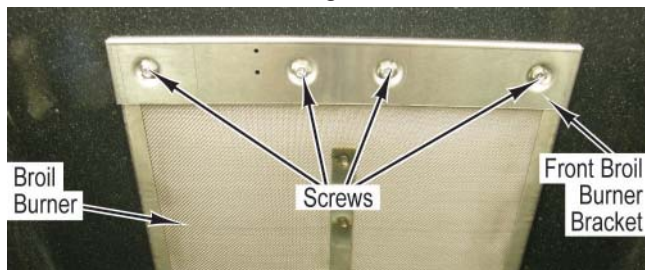
1. Remove nut from broil burner and gas tubing.



2. Remove two screws that secure igniter to oven cavity.
3. Remove five screws and rear broil burner bracket from oven cavity.



4. Remove four screws and front broil burner bracket from oven cavity.
5. Pull broil burner from range.



6. Reverse procedure for installation.