



TECHNICAL SERVICE GUIDE

XL44™ Self-Cleaning Gas Convection Ranges



MODEL SERIES:

JGB910

JGB920





IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death. If you smell gas:

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

CAUTION

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

GE Consumer Service Training

Technical Service Guide

Copyright © 2000

All rights reserved. This service guide may not be reproduced in whole or in part in any form without written permission from the General Electric Company.

Table of Contents

Description of Range	2
Installation of the Range	2
Cooktop Removal	4
Conversion to L.P. (Propane) Gas	5
Upper Control Panel Access	7
Lower Control Panel Access	9
Warming Zone	9
Convection Oven Fan	10
Warming Drawer	11
Special Features	12
Fault Code Memory Display	14
On-Board Diagnostic Tests	16
Door Latch Mechanism	18
Troubleshooting	19
Schematics and Strip Circuits	21
Wiring Diagram	25
Warranty Information	27

Description of Range

Gas Surface Burners With Sealed Gas Burner

Glass Cooktop Surface (Model JGB920)

Electric Glass Top Warming Zone (Model JGB920)

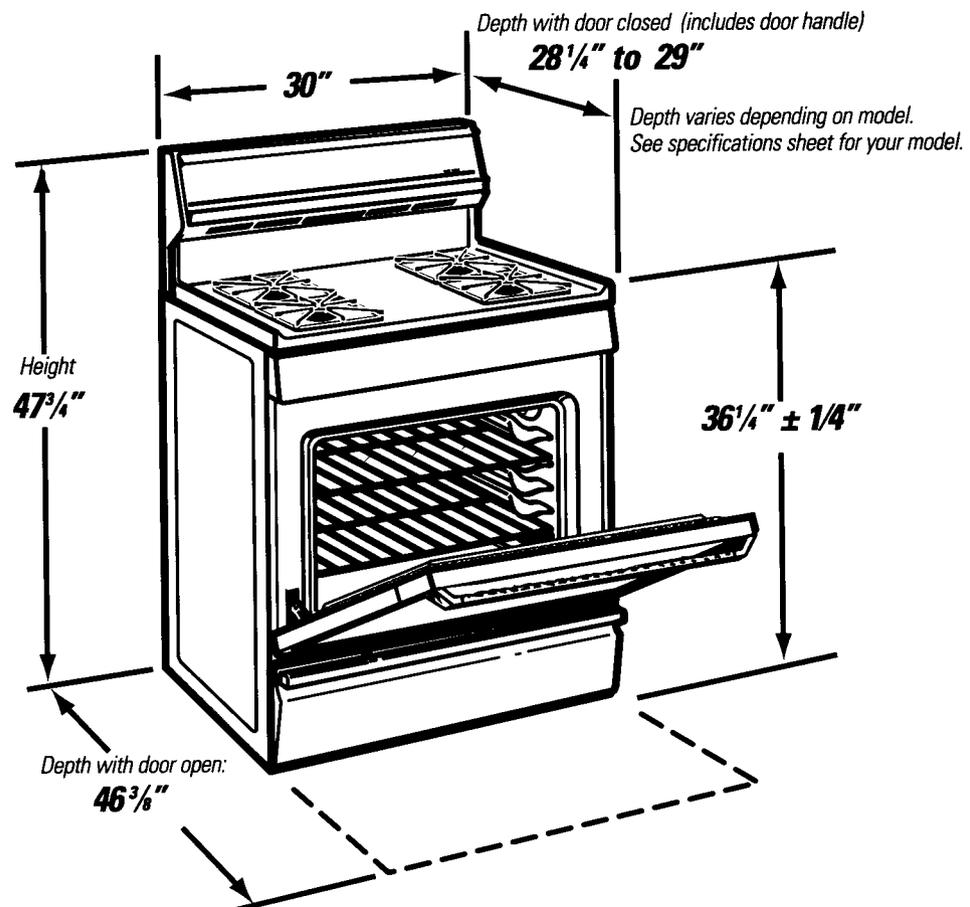
Self-Cleaning Oven (Baking and Convection)

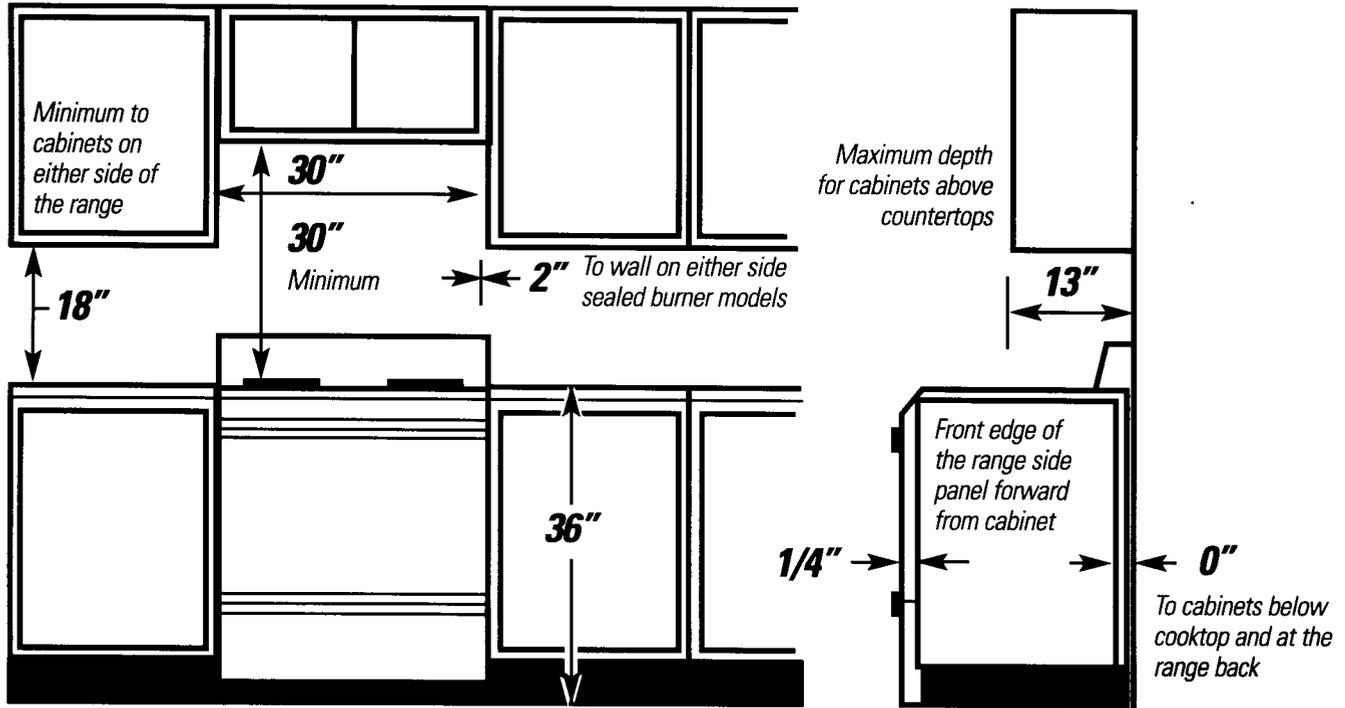
Temperature Probe for Convection Roasting

Electric Warming Drawer

Electronic Touchpad Controls

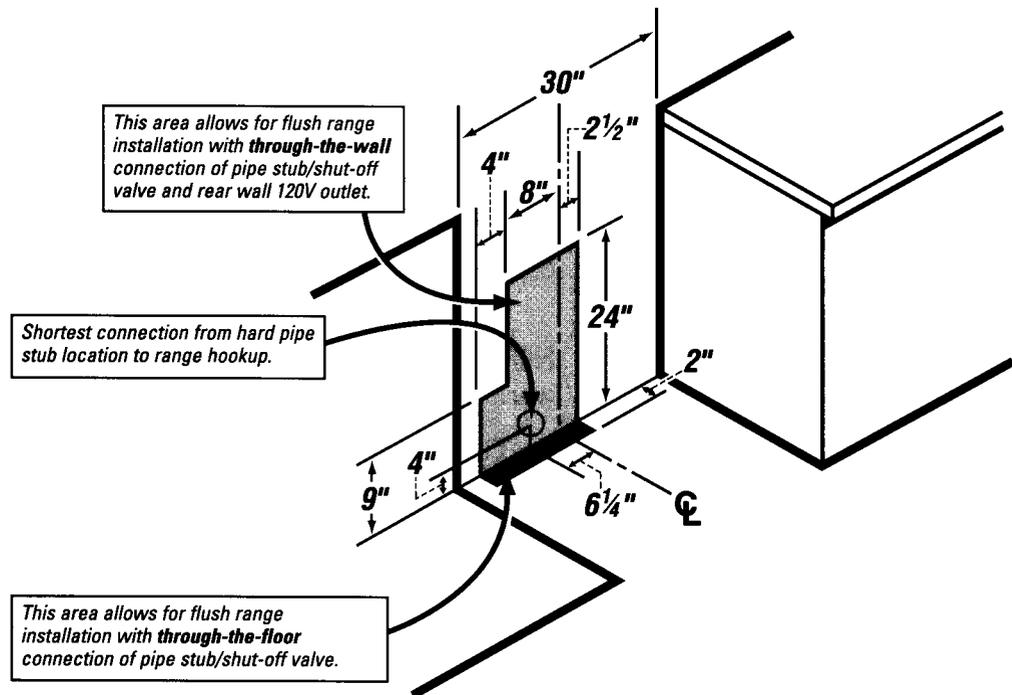
Installation of the Range



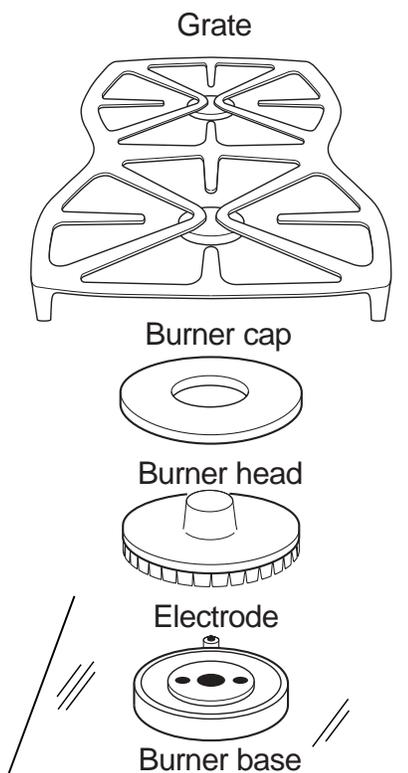


Read these instructions completely and carefully.

Gas Pipe and Electrical Outlet Locations

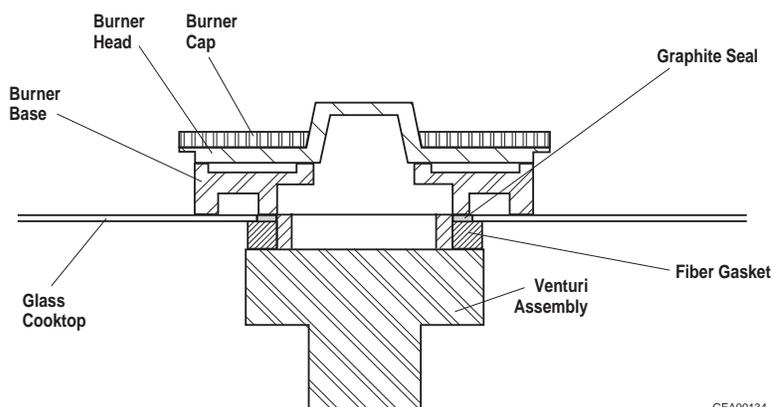


Cooktop Removal

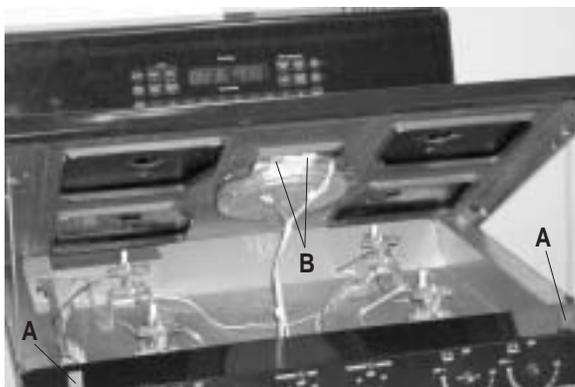


GEA00124

1. Remove electrical power to the range. Turn off gas at the main valve.
2. Lift off burner grates, caps, and burner heads.
3. Remove 8 screws holding burner bases to cooktop.
4. Lift bases and graphite seals off cooktop.



GEA00134



GEA00123

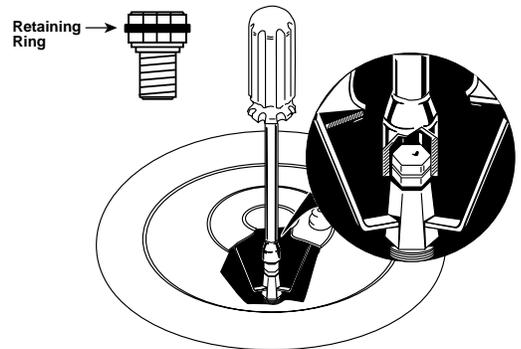
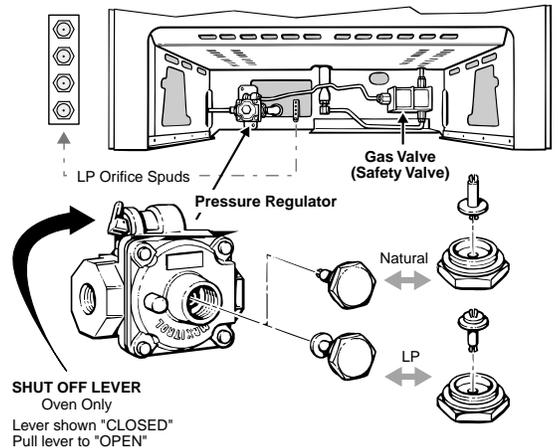
5. To release cooktop, disengage front clips (A) using a flat blade screwdriver.
6. Gently raise the top high enough for the prop rods to hold it upright.

NOTE: When the cooktop is raised, the gas jets and warming zone unit are accessible for repair.

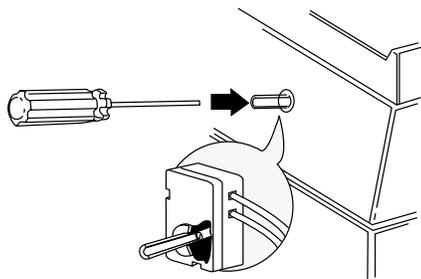
7. Remove 4 wires (B) connected to the warming zone.
8. Disengage the prop rods from the range side panel. Lift off the cooktop.
9. When reinstalling burner heads, make sure the nipple in the burner head is positioned toward the electrode. Rotate the burner head around the burner base until it is level and securely seated.

Conversion to L.P. (Propane) Gas

- 1. Convert Regulator** - Regulator is located in the lower, left hand rear corner of the range as viewed from the front. Depending on the model, remove the storage drawer, broiler drawer or false panel to access the regulator. Some models with a broiler drawer will have a metal cover over the regulator that must be removed for conversion and reinstalled when conversion is complete.
- 2. To Convert** - Remove the large hex-nut which is located in the center of the regulator. Remove the plastic pin from the bottom side of the cap, turn the pin 180 degrees and snap the pin back into the cap. There are raised letters on the flat side of the plastic pin, "NAT" and "L.P.". In the "LP" position the end of the pin marked "NAT" should be snapped into the bottom of the hex-nut.
- 3.** Remove surfaced burners and replace all 4 top burner orifice spuds with the L.P. orifice spuds supplied with the range (refer to the Technical Data Sheet supplied with the product for proper L.P. spud location and orifice color identification).
- 4.** Using a 1/2" wrench, tighten the orifice hood(s) supplying gas to the oven burner(s) clockwise until snug. Open the air shutter on the oven burner(s) to the full open position and adjust as needed.
- 5.** Adjust the low flame (simmer) setting on the surface burners.



LOW FLAME (SIMMER) ADJUSTMENTS



The top burner valves have low flame/simmer adjustment screws in the center of the control shafts. A flashlight may be required to locate the screw. A small thin blade screwdriver (approx. 3/32" blade width) is needed to engage the screw.

TO ADJUST THE LOW FLAME SETTING - at least two other burners must be lit. Light the burner being adjusted and turn the knob to "LOW". Remove the knob and insert the screwdriver into the shaft of the control valve. Turn the adjustment screw to obtain the desired flame size.

TEST FLAME STABILITY - by quickly turning the knob from "HI" to "LOW". If the flame goes out, increase the flame size and test again. Also, test flame stability by quickly opening and closing the oven door. If the flame is extinguished by the air current created by the door movement, increase the flame size.

The top burner orifices can be removed by removing the burner cap and burner heads. Using a 7 millimeter (mm) or a 9/32" nut-driver carefully slide the driver down over the orifice and rotate counterclockwise to remove.

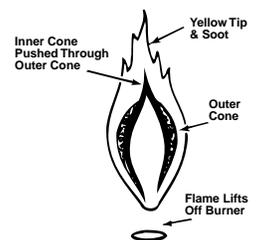
IMPORTANT NOTE: The orifices have a spring loaded retaining ring around the hex head to hold the orifice in the nut driver during installation and removal. A slight amount of force is required to push the nut driver down over the ring.

TOP BURNER FLAME ADJUSTMENTS

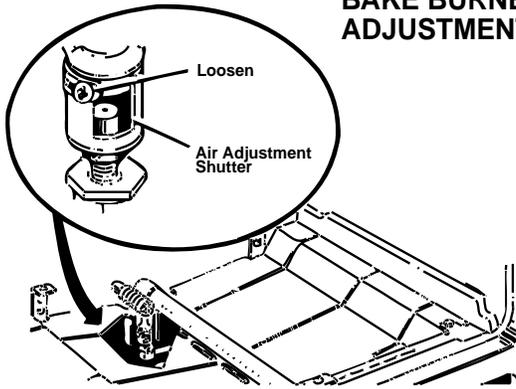
The top burners do not have air shutters adjustments and use non-adjustable orifices. If the flame lifts off of the burner, or if you experience "Yellow Tip" flames and/or soot in the flames, be sure to check the following:

- Gas pressure: 4" W.C.P. (natural) and 10" W.C.P. (L.P.)
- Inspect orifice to be sure it is drilled in the center and free of debris or burrs.
- Be sure the correct size orifice is in the proper location
- Make sure the range was properly converted if on L.P.
- If the cause of sooting can not be found in the above checks, replace the orifice with one having a smaller diameter opening

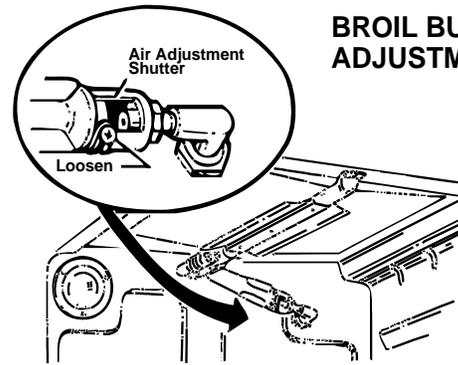
IMPROPER FLAME



BAKE BURNER ADJUSTMENTS



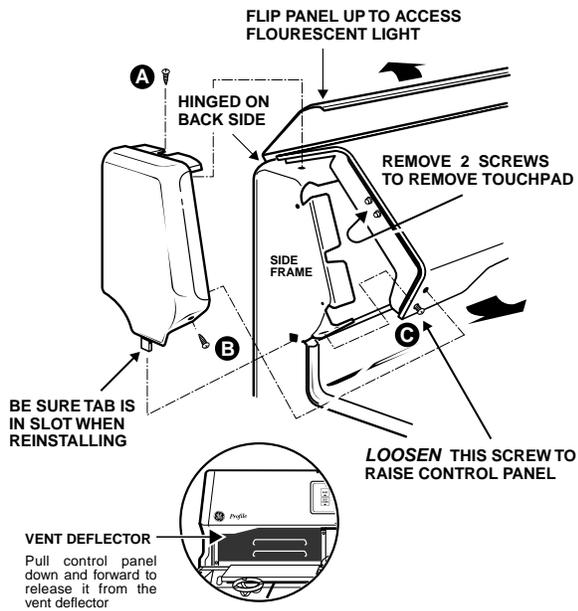
BROIL BURNER ADJUSTMENTS



6. Open the bake and broil air shutter adjustments as far as possible and adjust later if necessary.

Beneath the bake and broil burner orifice hoods are LP orifice needles. To convert to L.P. tighten the orifice hoods against the orifice needle until the hoods are snug (2-2½ turns). DO NOT OVER TIGHTEN. Check the burners for proper flame adjustment. The burner flame should have approximately 1" blue cones. With most LP gas, small yellow tips at the end of outer cones are normal. flames should not lift off burner ports. If lifting is observed, gradually reduce the air shutter opening until flames are stabilized.

Upper Control Panel Access



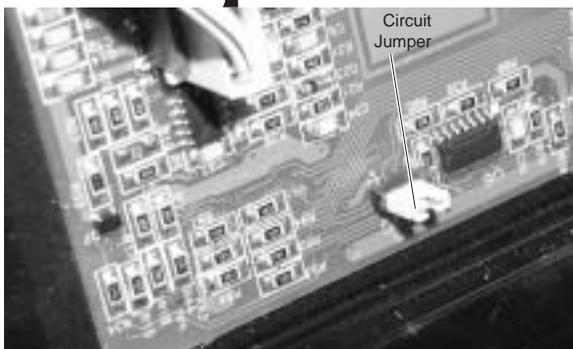
Remove Control Panel

1. Grasp the light panel cover at the rear, where it is hinged to the control panel. Lift upward at the rear, just far enough to insert a small, thin bladed screwdriver between the end cap and the fluorescent light cover. *Be sure to wrap the blade of the screwdriver with tape to avoid scarring the plastic shield.* Slide the blade forward toward the front while lifting up the cover.
2. Remove screws (A) and (B) that secure the endcaps to the control console. Be careful when removing the endcap not to break the locating tab at the bottom of the endcap.
3. Loosen screw C 2 turns. This screw is just long enough that it will protrude into a slot in the side frame, causing the panel to bind as you slide it down and forward. Loosening the screw a couple of turns will back it off enough that it will no longer protrude into the side frame slot.
4. Grasp the face panel at the bottom front with one hand, while gently pushing down on the top of the control panel with your other hand. Pull control panel downward to release it from the vent deflector while at the same time pulling the panel forward from the bottom.

Remove Capacitive Touchpad

1. Remove 2 screws at each end of the control panel.
2. *Carefully* separate the control panel from the touchpad to avoid damaging the seal strips above and below the touchpad.

NOTE: On the circuit board behind the control panel is a circuit jumper that may fall off during disassembly. When reconnecting the jumper, be sure to position it on the left and center pins. ***Incorrect assembly of the circuit jumper will result in ECP failure.***



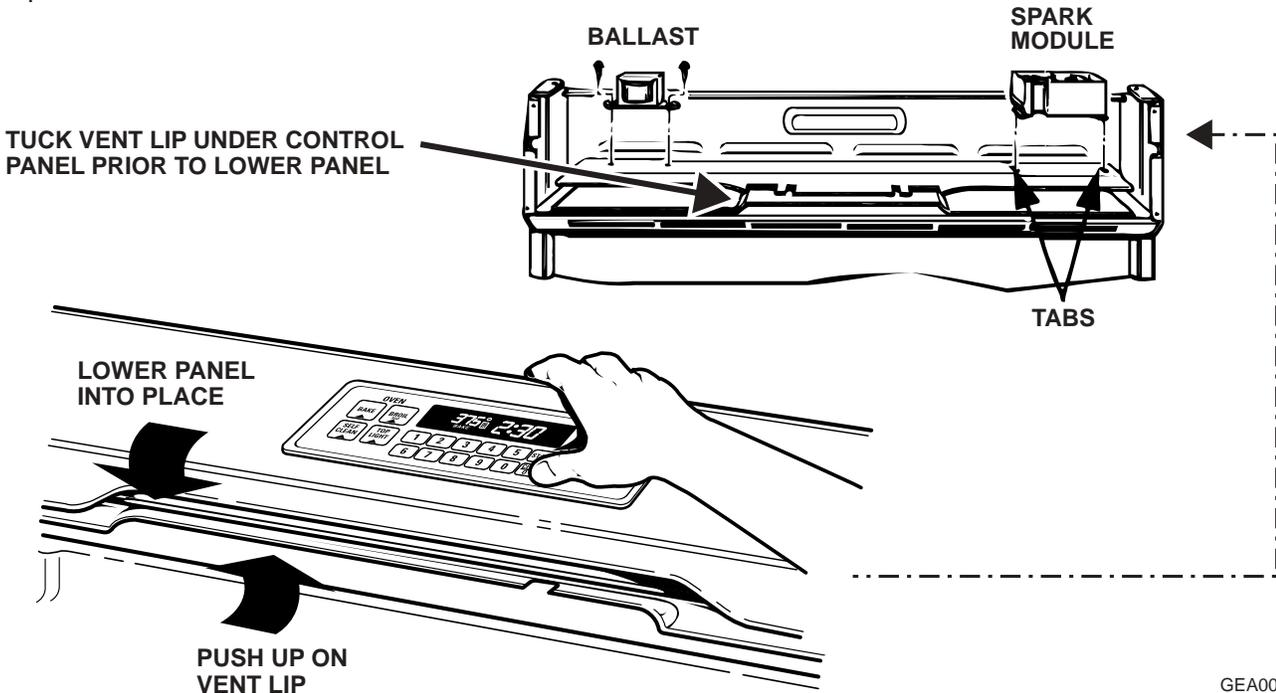
GEA00170

REINSTALLING CONTROL PANEL

When reinstalling the control panel, push up on the vent lip with your fingers. At the same time, pull forward on the control panel, making sure that the vent lip is *tucked under* the control panel while lowering the panel into place.

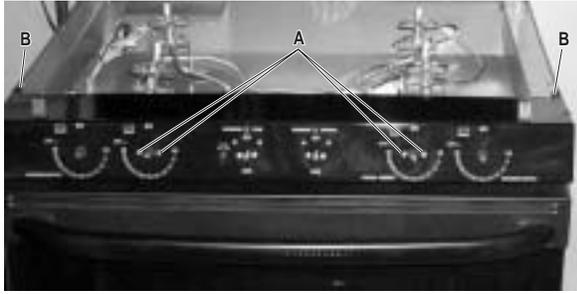
SPARK MODULE

The spark module is located behind the control panel on the right side. You must remove the control panel to access the spark module.



GEA00127

Lower Control Panel Access



GEA00125

Remove Lower Control Panel

1. Remove electrical power to the range. Turn off gas at the main valve.
2. Remove cooktop.
3. Remove all knobs by pulling them straight off the stems.
4. Remove 4 screws (A) beside rear burner knobs.
5. Remove 2 screws (B) on top of lower control panel.
6. Carefully pull panel over stems.

NOTE: When the lower control panel is removed, wires for the warming drawer, warming zone, and burner ignition are accessible for repair.

Warming Zone

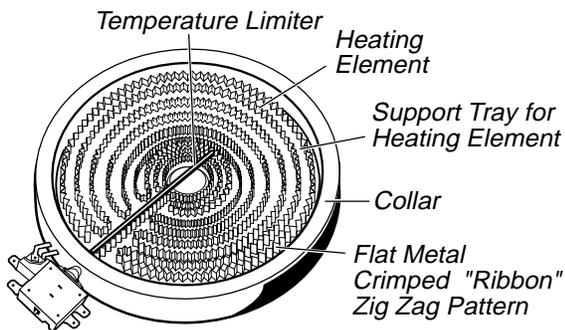


The warming zone, located in the center of the glass cooktop, will keep hot, cooked food at serving temperature.

Remove Warming Zone Unit

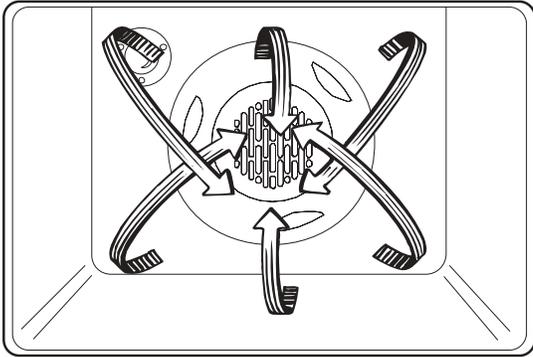
1. Remove electrical power to the range. Turn off gas at the main valve.
2. Raise the cooktop.
3. Disconnect 4 wires from the front of the unit.
4. Remove screws from 3 metal holding brackets at the 12, 36, and 60 positions marked on the unit.
5. Support the unit with one hand while easing back the brackets with the other hand.

NOTE: To access the infinite switch for the warming zone, remove the lower control panel.



GEA00338

Convection Oven Fan

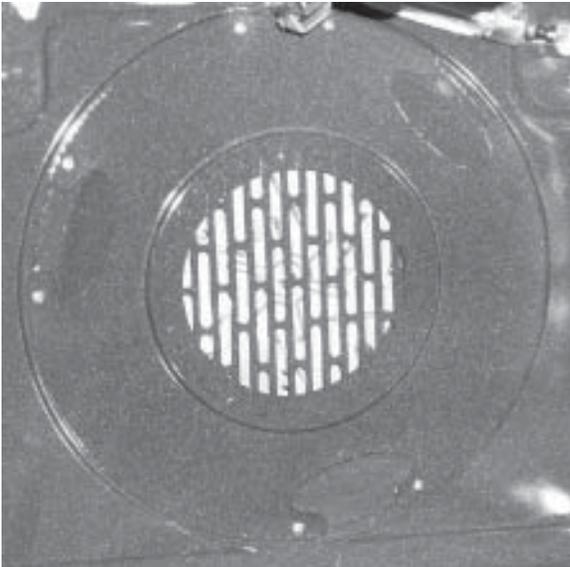


GEA00169

NOTE: The fan will not start until the preheat temperature is reached.

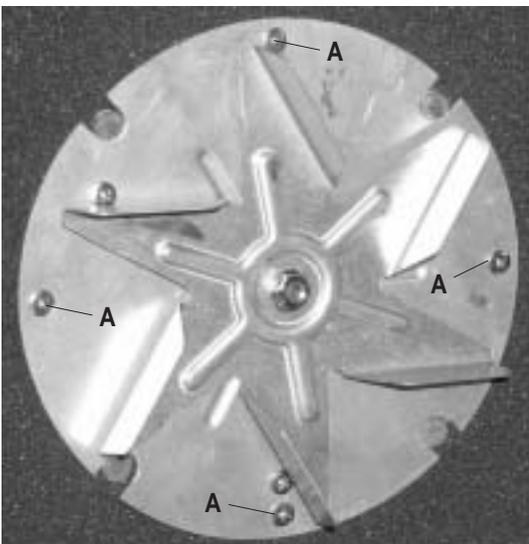
In a convection oven, a fan circulates hot air over, under, and around the food. This circulating hot air is evenly distributed throughout the oven cavity. As a result, foods are evenly cooked and browned—often in less time than with regular heat.

NOTE: During convection cooking, the convection fan will stop when the oven door is opened but the heat will not turn off.



Remove Convection Oven Fan

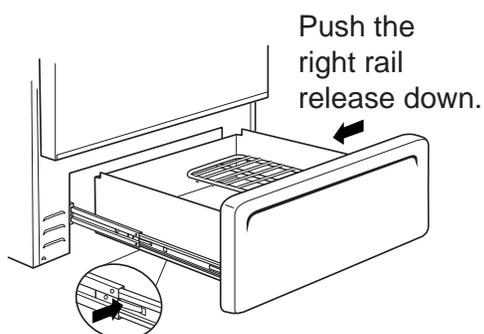
1. Remove 6 screws from the fan shield.
2. Remove the shield.



GEA00122

3. Remove the nut and pull the fan blades forward.
4. Remove 4 screws (A).
5. Pull the convection fan motor bracket forward.
6. Disconnect 3 wires to release fan motor.

Warming Drawer



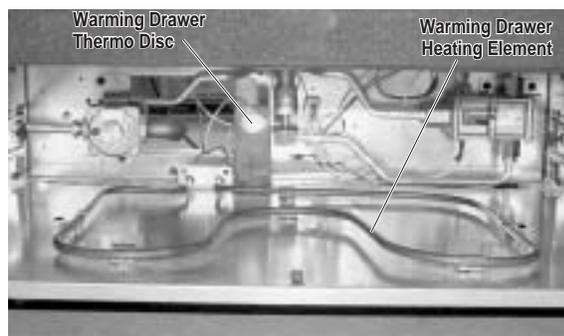
Pull the left rail release up.

GEA00165

The warming drawer will keep hot, cooked foods at serving temperature. The warming drawer cannot be used during a self-clean cycle. The **ON** signal light is located above the control knob.

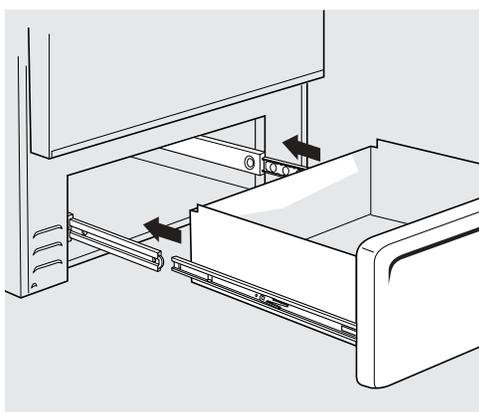
Remove Warming Drawer

1. Pull the drawer straight out until it stops.
2. Pull up on the left drawer tab while pushing down on the right tab to release drawer stops.
3. Pull drawer straight out to remove.



GEA00133

NOTE: Electrical warming components are accessible when the warming drawer is removed.



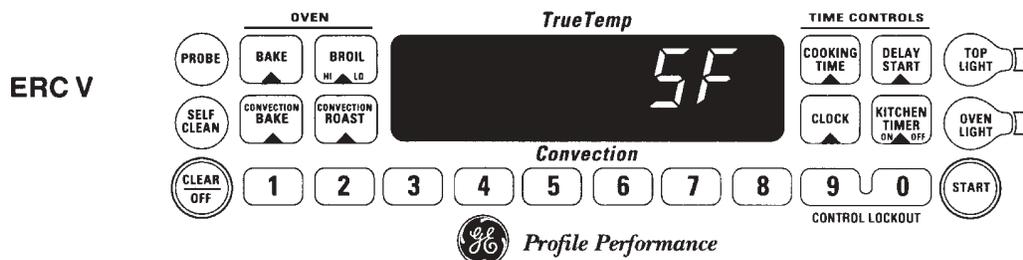
Replace Warming Drawer

1. Place the left drawer rail around the inner left rail guide and slide and push it in slightly to hook it.
2. Place the right drawer rail around the inner right rail guide and slide and push it in slightly to hook it.
3. Slide the drawer all the way in.

NOTE: To access the infinite switch for the warming drawer, remove the lower control panel.

Special Features

The "SPECIAL FEATURE" modes can only be activated while the display is showing the time of day clock. These special features remain in the ERC's memory until you or the consumer change them. When the display shows your choice press the START pad. The special feature you selected will remain in memory even after a power failure.



TO ADJUST THE THERMOSTAT (MODELS WITH NUMBER PADS)

Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds until the display shows "SF".

Press the BAKE pad. A two digit number shows in the display. Press the BAKE pad once to increase (+) the oven temp. or twice to decrease (-).

The oven temp. can be adjusted up to (+) 35°F. hotter or (-) 35°F. cooler. Press the number pads the same way you read them. For example, to change the over temperature 15°F., press 1 and 5.

When you have made the adjustment, press the START pad to go back to the time of day display.

NOTE: Adjustments will not affect the broiling or self-cleaning temperatures. It will be retained in memory after a power failure.

12 HOUR SHUT-OFF

With this feature, should you forget and leave the oven on, the control will automatically turn off the oven after 12 hours, during baking functions, or after 3 hours during a broil function. If you wish to turn off this feature, follow the steps below:

Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds until the display shows "SF".

Press the DELAY START or START TIME pad. The display will show "12 Shdn" (12 hour shut-off). Press the DELAY START or START TIME pad again and the display will show "no Shdn" (no shut-off).

Press the START pad to activate the no shut-off and leave the control set in this special features mode.

COOKING/SELF-CLEAN LOCKOUT

The ERC control will allow you to lock out the COOKING and SELF CLEAN pads so that they cannot be activated when touched.

Press the BAKE and BROIL HI/LO pads at the same time for 3 seconds until the display shows "SF".

Press the SELF CLEAN pad. The display will show "Loc OFF." If this is your choice, press START.

Press the SELF CLEAN pad again. The display will show "Loc On." If this is your choice, press START.

When this feature is on and the touch pads are pressed the control will beep and the display will show "LOC."

NOTE: The control lockout mode will not affect the clock, kitchen timer on/off and oven light touch pads

12 HOUR, 24 HOUR OR CLOCK BLACK-OUT

The ERC control is set to use a 12 hour clock. If the customer prefers to have a 24 hour military time clock or black-out the clock display, follow the steps below.

Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds until the display shows "SF".

Press the CLOCK pad once. The display will show "12 hr."

Press the CLOCK pad again to change to the 24 hour military time clock. The display will show "24 hr." If this is your choice, press START.

Press the CLOCK pad again to black-out the clock display. The display will show "OFF." If this is your choice, press START.

If the clock is in the black-out mode and you want to restore it to the display, repeat steps 1 and 2.

NOTE: If the clock is in the black-out mode you will not be able to use the DELAY START function.

COOK AND HOLD

The cook and hold feature keeps cooked foods warm for up to 3 hours after the cooking function is finished. To activate this feature, follow the steps below:



Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds until the display shows "SF".



Press the COOKING TIME pad. The display will show "HLd OFF." Press the COOKING TIME pad again to activate the feature. The display will show "HLd On."



Press the START pad to activate the cook and hold feature and leave the control set in this special features mode.

SALES MODE

Display continuously scrolls through cooking functions, display icons, and numbers.



To activate this feature: Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds, until the display shows "SF". Press and hold both the CLOCK and KITCHEN TIMER pads until the display starts scrolling.



TONES AT THE END OF A TIMED CYCLE

At the end of a timed cycle, 3 short beeps will sound followed by one beep every 6 seconds, until the CLEAR/OFF pad is pressed. This continuous 6 second beep may be canceled.

To cancel the 6 second beep:



Press the BAKE and BROIL HI/LO pads at the same time for 2 seconds until the display shows "SF".



Press the KITCHEN TIMER ON/OFF pad. The display shows "Con bEEP" (continuous beep). Press the KITCHEN TIMER ON/OFF pad again. The display shows "bEEP." This cancels the one beep every 6 seconds.



Press the START pad.

FAHRENHEIT OR CENTIGRADE TEMPERATURE

The ERC control is set to use the Fahrenheit temperature selections, but you may change this to use the Centigrade selections.



Press the BAKE and BROIL HI/LO pads at the same time for 3 seconds until the display shows "SF".



Press the BROIL HI/LO pad. The display will show "F" (Fahrenheit). If this is your choice, press START.



Press the BROIL HI/LO pad again. The display will show "C" (Centigrade). If this is your choice, press START.

HELPFUL USE AND CARE INFORMATION

CLOCK - The clock must be set before the control for the oven will work. the time of day clock cannot be changed during DELAY START. It can be changed during a regular bake or broil operation.

KITCHEN TIMER - Does not control oven operation. You may program the timer for activities up to 9 hours and 59 minutes. When the timer reaches " :00," the control will beep 3 times followed by one beep every 6 seconds until the KITCHEN TIMER ON/OFF pad is pressed. To cancel the timer, press and hold the KITCHEN TIMER ON/OFF until the word "TIMER" disappears from the display.

POWER FAILURE - If a flashing time is in the display, you have experienced a power failure. Reset the clock.

PREHEAT NOTIFICATION TONE - When you set an oven temperature the oven automatically starts to heat. When the temperature inside the oven reaches your set temperature a tone will sound to let you know to place the food in the oven.

CONTROL LOCKOUT FUNCTION - press and hold the 9 + 0 key pads for approximately 4 seconds. The control will beep twice and display "Loc".



SELF CLEANING - We recommend venting with an open window or using a ventilation fan or hood during the first self-clean cycle.

Do not use commercial oven cleaners or oven protectors in or near the self-cleaning oven. A combination of any of these products plus the high clean cycle temperatures may damage the porcelain finish of the oven.

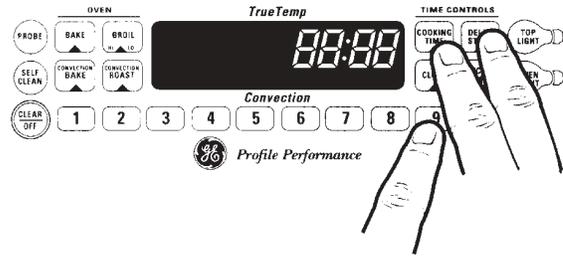
The oven front frame and the oven door outside the gasket do not get cleaned by the self-clean cycle. On these areas use detergent and hot water or a soap-filled steel wool pad. Rinse well with a vinegar and water solution. This will help prevent a brown residue from forming when the oven is heated. Buff these areas with a dry cloth. Do not clean the gasket.

Fault Code Memory Display

ERC FAULT CODE MEMORY DISPLAY

Have you ever run a service call and been told by the consumer that their range displayed an "F" fault code and when you arrive the fault is gone (cleared by the consumer) and the consumer can not remember what the code was?

Well there is a way to "recall" the last four fault codes from the ERC memory. These codes are stored in short term memory (RAM) and can be recalled by the service Technician; however, **it is important to note that once power is lost to the appliance the memory (RAM) is cleared and "reset" to all eights.** When servicing a range for a fault code problem, always remove power to the unit. This will protect you from electrical hazards and will also reset the fault code memory storage back to all eights.



HOW TO DISPLAY THE FAULT CODES IN MEMORY

To read the fault code memory, follow the steps below:

1. Simultaneously press and **hold** the COOKING TIME and DELAY START pads. While holding these two pads press the number 9 pad. A history of the last four fault codes will appear in the display. NOTE: If no keypad entry is made within 5 minutes, the ERC test mode will "time out".
2. To terminate the memory fault mode press the CLEAR / OFF key pad

HOW FAULT CODES ARE STORED IN MEMORY - EXAMPLE

A If we displayed the fault code memory of the range just after power had been applied/reapplied, we would see four eights in the display, meaning that no fault codes are stored in memory.

B The first time a fault code occurs, the ERC display will **store** the fault code in its memory. When you read the fault code, which is stored in memory, the code will display in the far right hand digit of the clock display.

C If a second fault code occurs, it too is stored in the ERC memory. The first fault code stored in memory scrolls to the left, and the new fault code now displays in the far right hand digit of the clock display.

D If the same fault code repeats itself (sequentially), without being separated by a different fault code, then the repeated fault code will "**stack**" in memory. In other words, the repeated fault code will only display once, unless separated by a different fault code. In this example, F3 repeats itself twice, the resulting fault code memory display only shows one 3. The same would also be true if F3 repeated itself four times, the result showing in the fault code memory display would be one "3", NOT four "3"s.

E If a fourth fault code occurs, the ERC will scroll the previous fault codes stored in memory to the left, one digit, and store the new fault code in the far right hand digit of the clock display.

F If a fifth fault code occurs, the ERC will continue to scroll the previous fault codes to the left, and store the new fault code in the far right hand digit of the clock display.

G If a sixth fault code occurs, the ERC will once again scroll the previous fault codes to the left. Notice in this example the first fault code (F1), previously stored in memory is now lost. The ERC will continue to scroll the previous fault codes to the left and store the new fault code in the far right hand digit of the clock display.

A

88:88

No Fault codes
Power-up

B

88:81

First fault code -
F1

← scrolls left

C

88:13

Second fault code -
F3 (scrolls left)

← scrolls left

D

88:13

Third fault code -
F3 (stacks)

↑ Stacks

E

81:31

Fourth fault code -
F1 (scrolls left)

← scrolls left

F

13:15

Fifth fault code -
F5 (scrolls left)

← scrolls left

G

31:5F

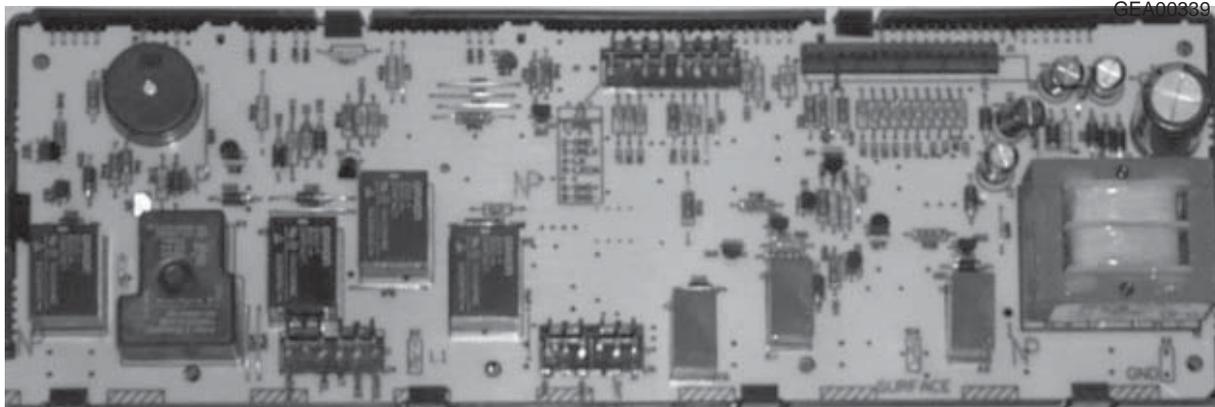
Sixth fault code -
FF (scrolls left)

← scrolls left

ERC FAILURE CODES

FAILURE CODE	MEANING	CORRECTION
-F0- -F1- -F7-	Stuck key pad or transistor failure. May mean relay is turned on.	If code cannot be cancelled, replace control.
-F2- Also see fan thermal switches	Indicates that oven is over temperature in one of the following modes within either a cooking or clean mode of operation. <ul style="list-style-type: none"> • Control senses oven temperature above 630° F with the door circuit in the unlock mode. • Control senses oven temperature above 930° F with the door in the door locked mode. 	<ul style="list-style-type: none"> • Look for welded relay contacts. (Heating elements on in off mode). • Look for high resistance in the sensor circuit due to high contact resistance (poor terminal crimp, deformed terminals, loose connection inside sensor tube) or intermittent solder joint. • Electrical noise interference in the sensor circuit (Ham radio, cordless phone etc.).
-F3- -F4-	Open sensor (circuit) (over 2700 ohms) Shorted sensor (circuit) (under 950 ohms) Could be result of contamination on terminals, pinched harness lead, or cold solder joint on control.	<ul style="list-style-type: none"> • Disconnect power to range. • Disconnect sensor connector at control. Measure sensor resistance at control connector (take care not to damage terminals in block) - Should read 1100 ohms at room ambient (approx. 72° F).
<ul style="list-style-type: none"> • Measure each sensor lead from connector block to ground. If shorted, look for pinched or cut wire in sensor circuit. • Check connector terminals - Look for deformed or corrosion on terminals. Repair or replace. • Check connector at sensor (remove sensor and carefully pull leads with connector into oven) • If all above is ok replace control. 		
-FC-	Problem with door lock circuit such as pinched wires between control and door lock switches.	Check wiring and test operation of switches. Perform resistance check.
-FF-	Door motor safety switch transistor failure	Replace control.
-F5-	Loss of relay drive circuit	<ul style="list-style-type: none"> • Press Clear/Off and reprogram control. If -F5- code reappears, replace control.
<ul style="list-style-type: none"> • Check sensor circuit. • Check lock circuit. <p>If all above check OK the F5 code can be a result of a momentary loss of power (DO NOT REPLACE CONTROL AND LOCK.) Check lock circuit.</p>		

NOTE: Connections can be intermittent due to a corrosive buildup between the connection to the terminals, or by being bent by the insertion of a probe, etc.



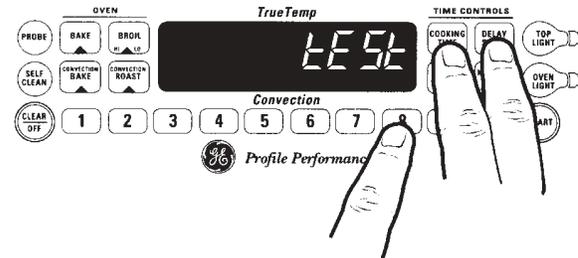
On-Board Diagnostic Tests

This test allows the Technician to energize various bake, broil, and convection circuits. This test will also allow you to energize the oven light and top panel light, and test key panel responses.

How To Enter And Exit The Diagnostic Mode

To perform the ERC diagnostic tests, follow the steps below:

1. To initiate the ERC test mode, first remove power to the appliance for approx. 8 seconds and then reapply power.
2. Simultaneously press and **hold** the COOKING TIME and DELAY START pads. While holding these two pads press the number 8 pad. The word "tEST" will appear in the ERC display. NOTE: If no keypad entry is made within 5 minutes, the ERC test mode will "time out".
3. To terminate the ERC test mode, press the CLEAR / OFF key pad.



How To Perform The Tests

The following tests allow you to quickly verify various ERC and keypad functions. Listed below are the diagnostic tests that can be performed directly from the ERC.

NOTE: If anyone of the keypads is pressed and held too long the ERC may terminate the test mode, beep continuously, or display F7.

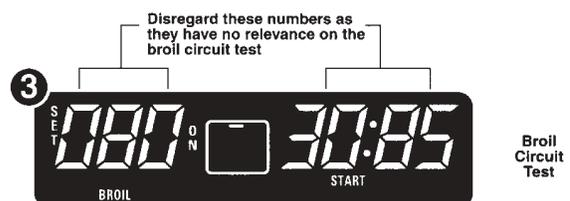
1. CONVECTION FAN MOTOR TEST - To perform this test, press and hold the CONVECTION ROAST pad (**for the fan to energize the door must be closed**). Quickly open the door and listen for the convection fan motor. As soon as you release the CONVECTION ROAST pad the fan motor will deenergize. If the fan motor did not energize, check the following: reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for a bad fan motor, door switch or ERC.



2. ENERGIZE BAKE CIRCUIT - To perform this test, press BAKE then START and listen for the bake relay to energize. **CAUTION:** If you hold the start pad in, you are energizing the bake element. As soon as you release the START pad the relay will deenergize. If the relay does not energize, check the following: reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for an open bake element and lastly, suspect a faulty ERC.



3. ENERGIZE BROIL CIRCUIT - To perform this test, press BROIL then START and listen for the broil relay to energize. **CAUTION:** if you hold the start pad in, you are energizing the broil element. As soon as you release the START pad the relay will deenergize. If the relay does not energize, check the following: reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for an open broil element, and lastly, suspect a faulty ERC.



4. ENERGIZE CONVECTION BAKE CIRCUIT - To perform this test press CONVECTION BAKE then START and listen for the convection bake relay to energize. **CAUTION:** If you hold the start pad in, you are energizing the convection element. As soon as you release the START pad the relay will de-energize. If the relay does not energize, check the following: Reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for an open convection element, and lastly suspect a faulty ERC.



5. NUMERIC KEY PADS TEST - To perform proper numeric key panel responses, press any numbered key pad and hold it in for approximately 5 seconds; the number you are pressing will show in the ERC display. If it does not, reconfirm that you have entered the test mode correctly, check wiring connections to the ERC and keypad ribbon.



6. ENERGIZE OVEN LIGHT CIRCUIT - To perform this test press OVEN LIGHT then START and listen for the oven light relay to energize. Look through the front window of the oven door to see the light come on. As soon as you release the OVEN LIGHT pad the oven light relay will de-energize. If the relay does not energize, check the following: reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for an open light bulb, and lastly, suspect a faulty ERC.

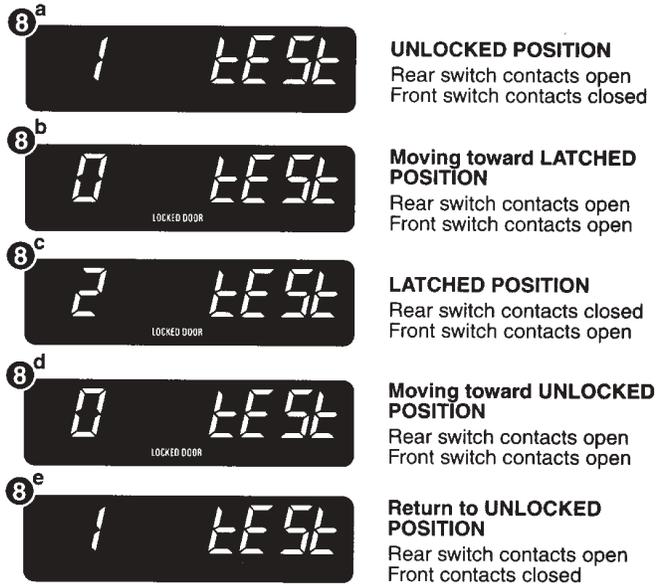


7. ENERGIZE TOP PANEL LIGHT CIRCUIT - To perform this test, press the TOP LIGHT key pad, and watch the top fluorescent light energize. As soon as you release the TOP LIGHT pad the fluorescent light will deenergize. If the light does not energize, check the following: reconfirm that you have entered the test mode correctly, check power and wiring connections to the ERC, check for a defective bulb, starter or ballast and lastly suspect a faulty ERC.



8. LOCK MOTOR CYCLE TEST - This test allows you to run the lock motor through one complete cycle of operation; testing lock motor operation, and front and rear latch switch contacts. To perform this test push and hold the SELF CLEAN key pad - make sure that the oven door is closed (light switch depressed). While depressing the SELF CLEAN pad, the lock motor will run through a complete cycle. Watch the ERC display closely as it will change based on the location of the motor and logic switch contact positions (open or closed).

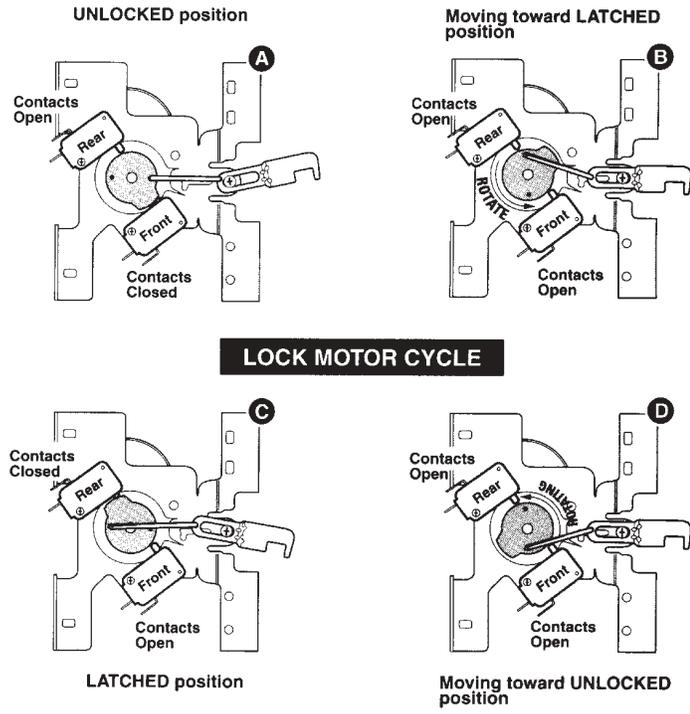
Illustrations 8a, 8b, 8c, 8d, & 8e show the sequence of events that will occur during the complete lock motor cycle. Notice the numbers shown in the left side of each display represent the position of the lock motor as well as the logic switch contact positions (open or closed). While performing the lock motor cycle test, the words **LOCKED DOOR** will flash in the ERC display during 8b and 8d.



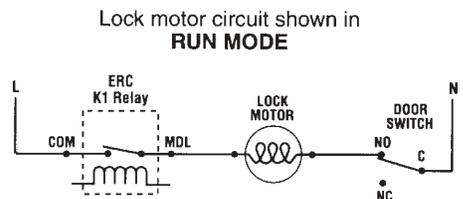
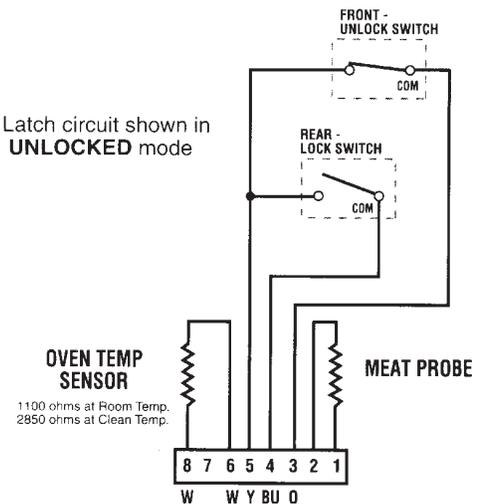
DOOR LATCH MECHANISM

The latch mechanism is thermally controlled. When the SELF CLEAN cycle is selected the ERC supplies power to the lock motor, driving the motor towards the LATCHED position. When the lock motor reaches the LATCHED position, the micro-switches on the lock mechanism signal the control board to stop the motor, leaving it in the LATCHED position. When the oven temperature reaches 560° F., the ERC prevents the lock motor from being energized (**DOOR LOCKED**).

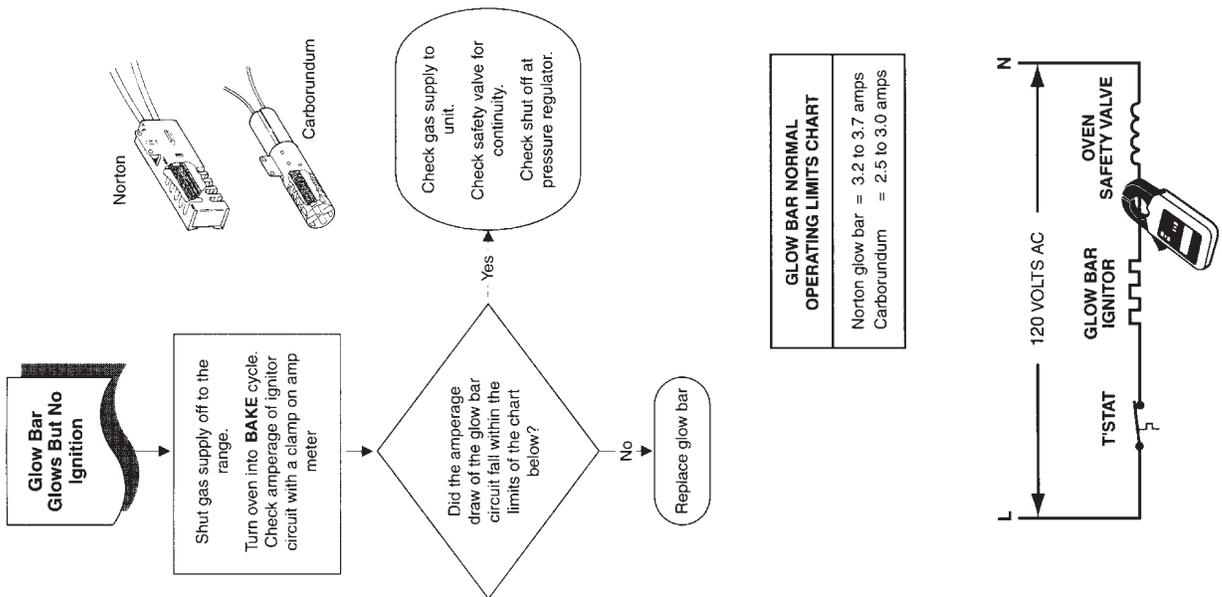
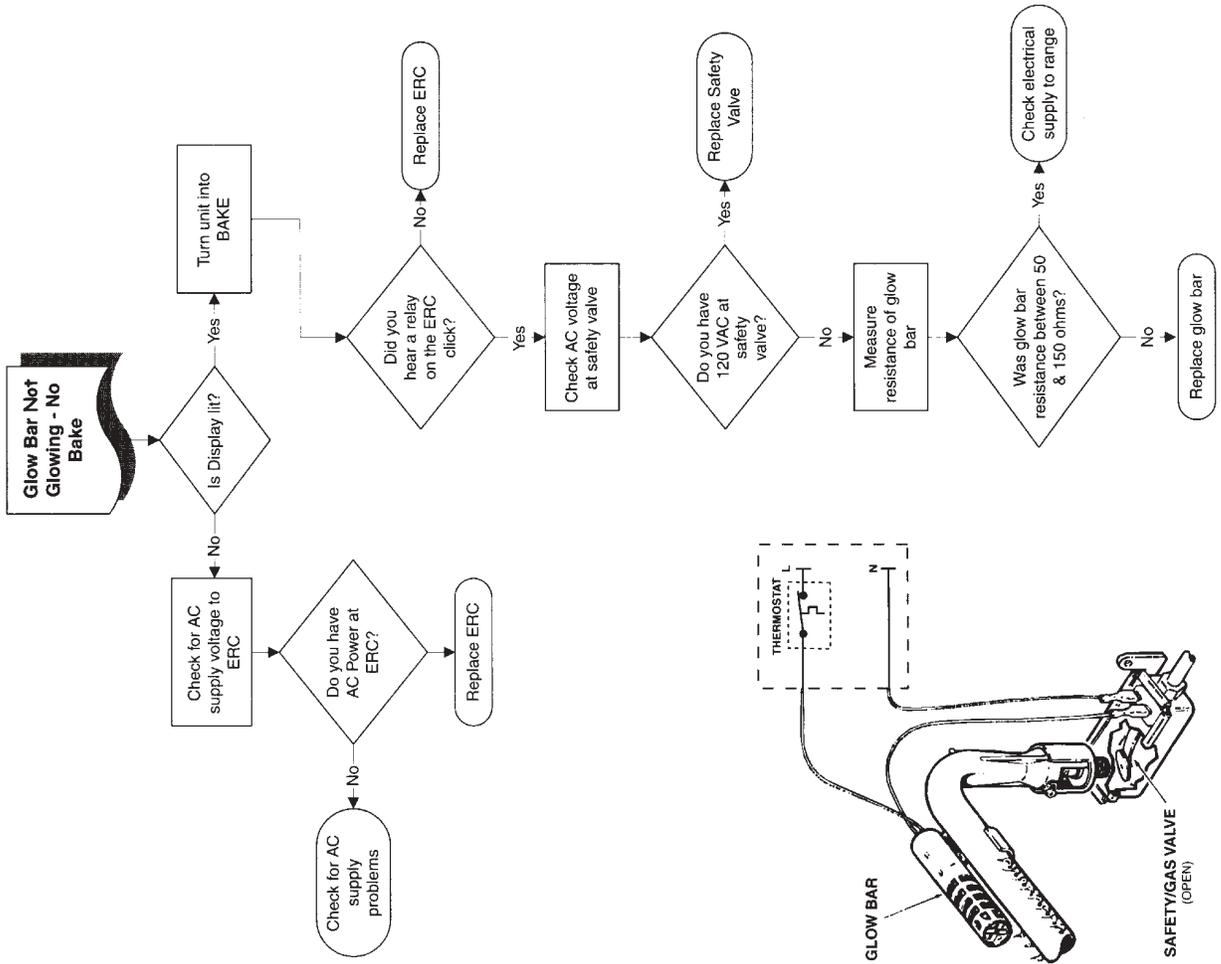
When the oven sensor senses a temperature of approximately 300°F. the ERC once again supplies power to the lock motor, driving it towards the UNLOCKED position. When the UNLOCKED position is reached, the micro-switches on the lock mechanism signal the control board to stop the motor, leaving it in the UNLOCKED position.



LOCK MOTOR CYCLE



Troubleshooting



Schematics and Strip Circuits

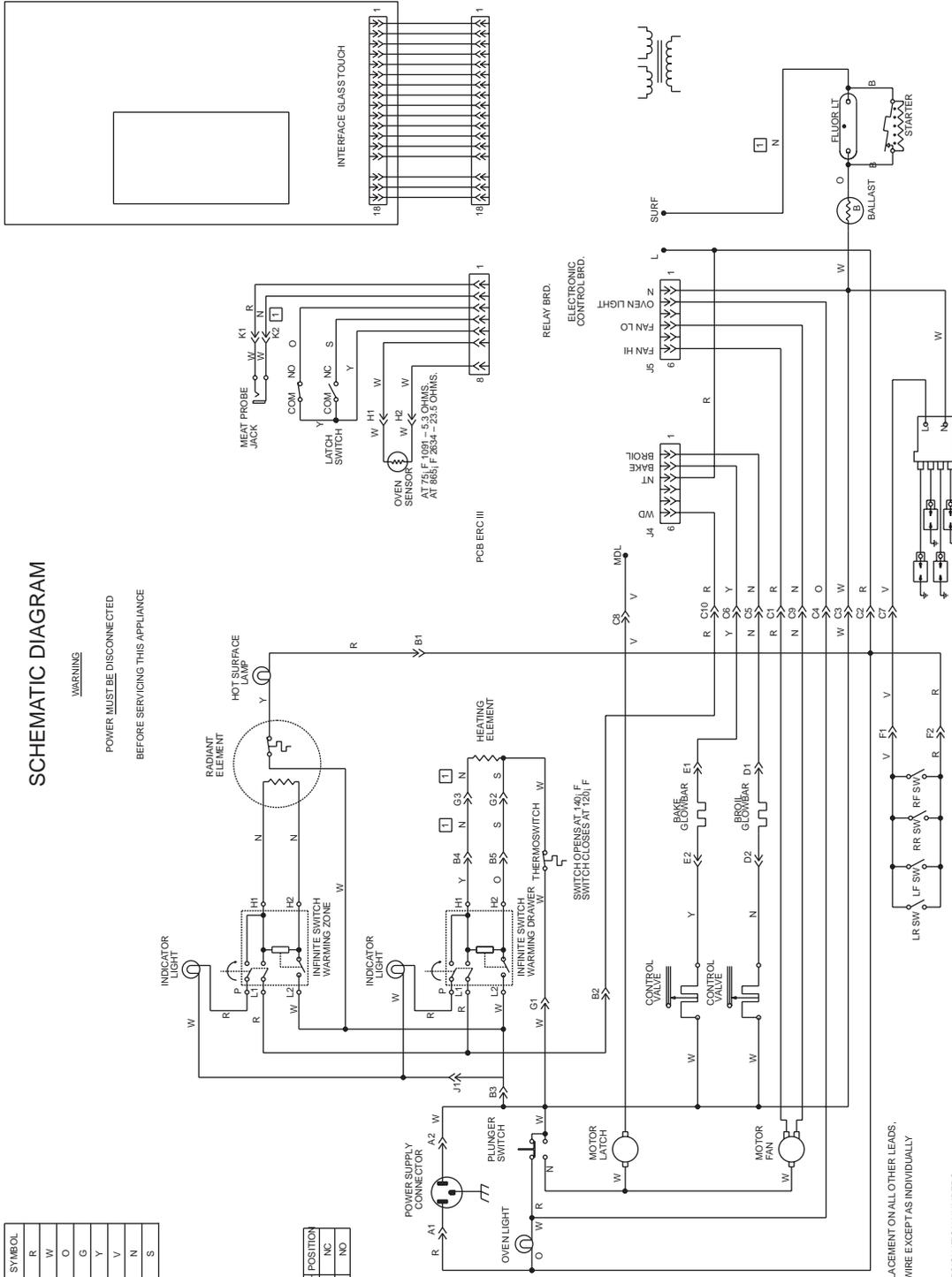
SCHEMATIC DIAGRAM

COLOR	SYMBOL
RED	R
WHITE	W
ORANGE	O
GREEN	G
YELLOW	Y
VIOLET	V
BLUE	N
GRAY	S

LATCH SWITCH POSITION
UNLOCKED
LOCKED

WARNING

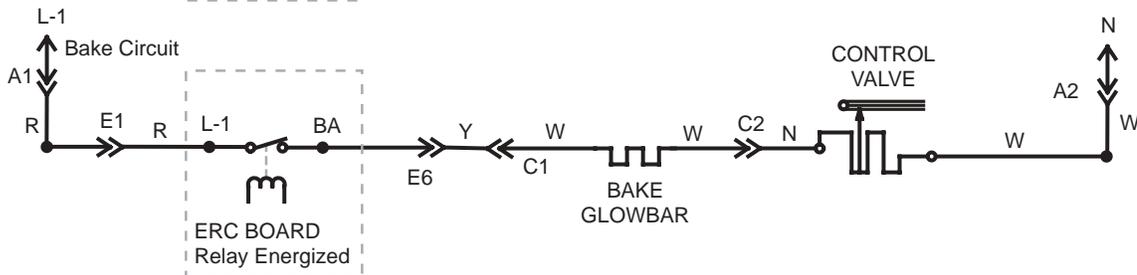
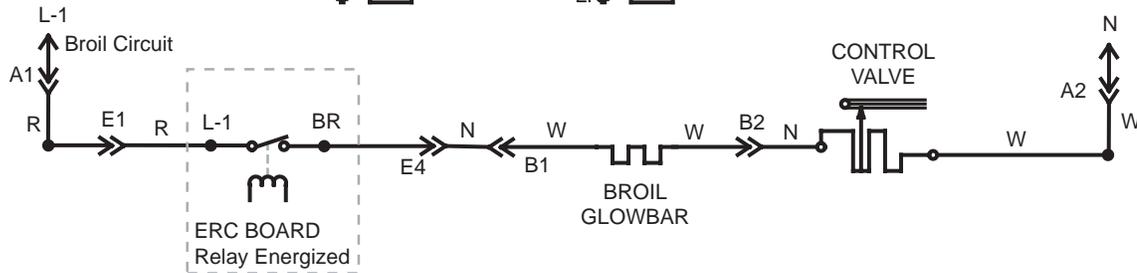
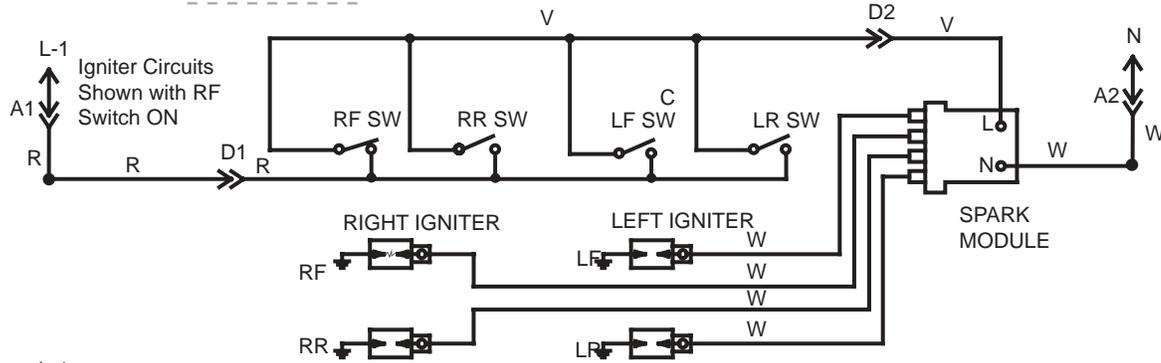
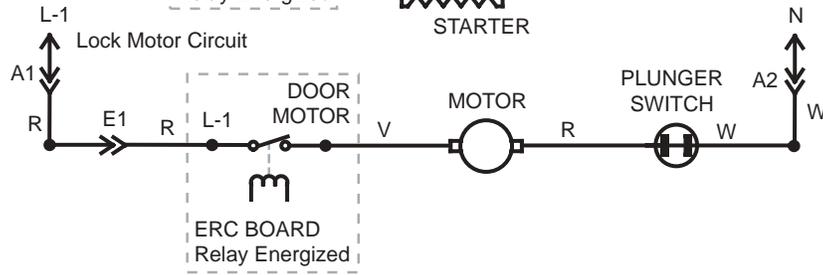
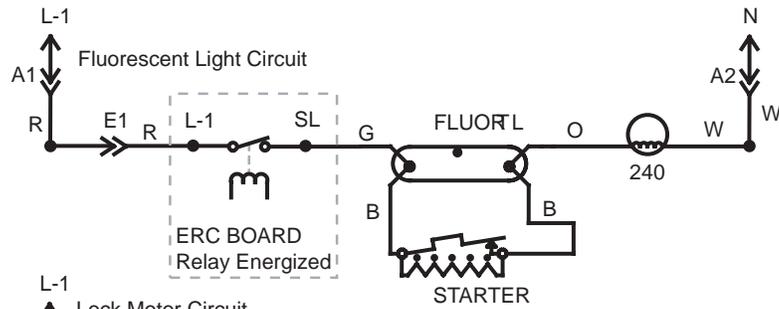
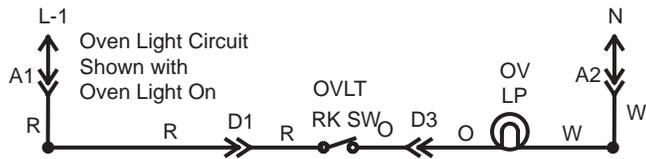
POWER MUST BE DISCONNECTED
BEFORE SERVICING THIS APPLIANCE



NOTE:
FOR SERVICE REPLACEMENT ON ALL OTHER LEADS,
USE 18 GA. 150 C WIRE EXCEPT AS INDIVIDUALLY
NOTED ON LEADS.

ALL LEADS WITH DESIGNATION NUMBERS
THAT ENTER COMMON LEAD PATH ()
MUST BE TRACED TO THEIR TERMINATIONS

GEA00065

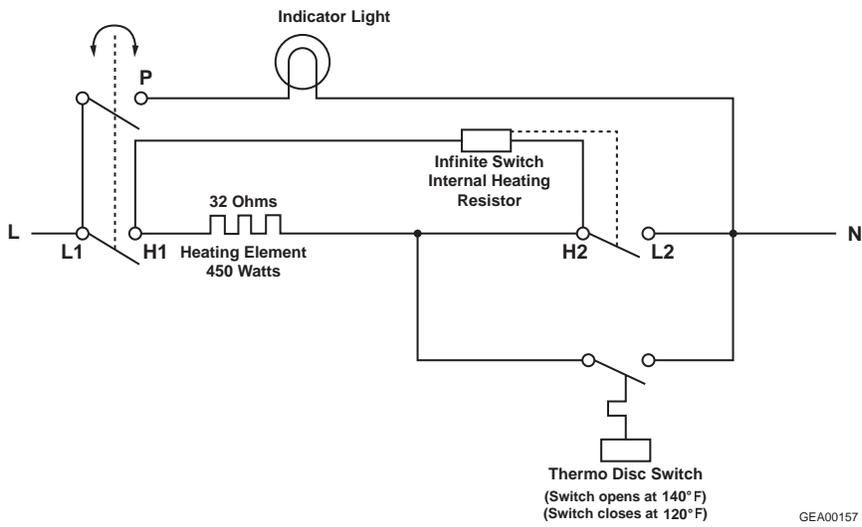


RELAY CONTACT OPERATION TEST			
Relay	Terminals	Voltage in Mode	Voltage in Off
Bake	BA to N	120 VAC in Bake	0 VAC in Off
Broil	BR to N	120 VAC in Broil	0 VAC in Off
Latch	Door Motor to N	120 VAC	0 VAC in Off
Surface Light	SL to N	120 VAC	0 VAC

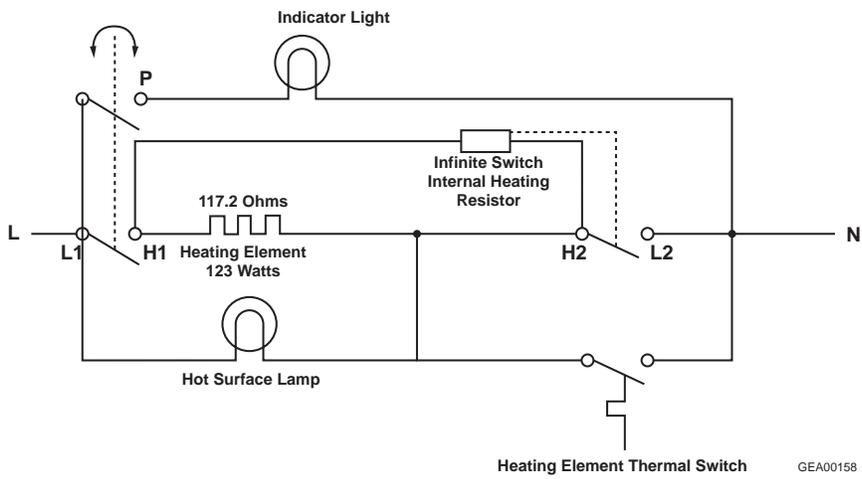
COLOR	SYMBOL
RED	R
WHITE	W
ORANGE	O
GREEN	G
YELLOW	Y
VIOLET	V
BLUE	N
GRAY	S

GEA00167

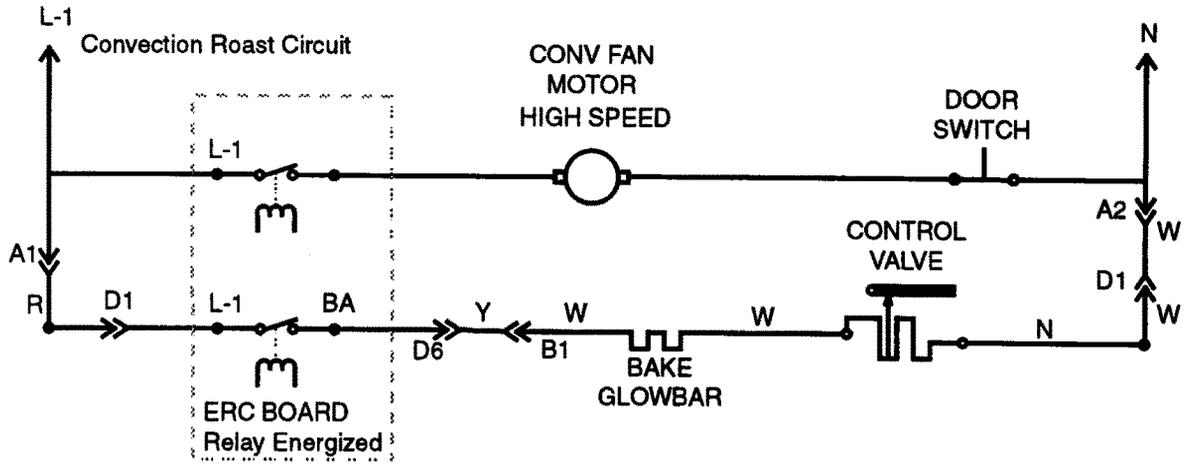
Warming Drawer Circuit



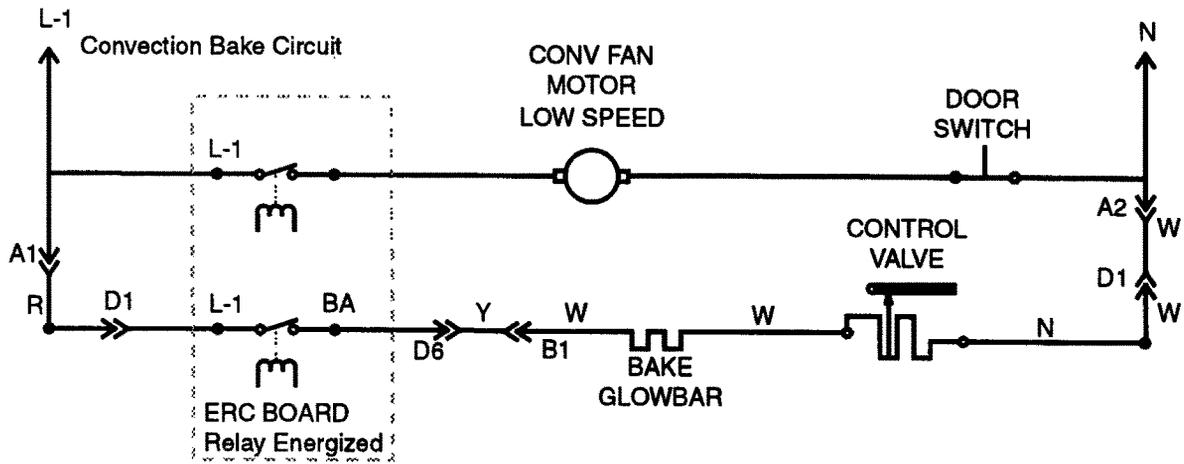
Warming Zone Circuit



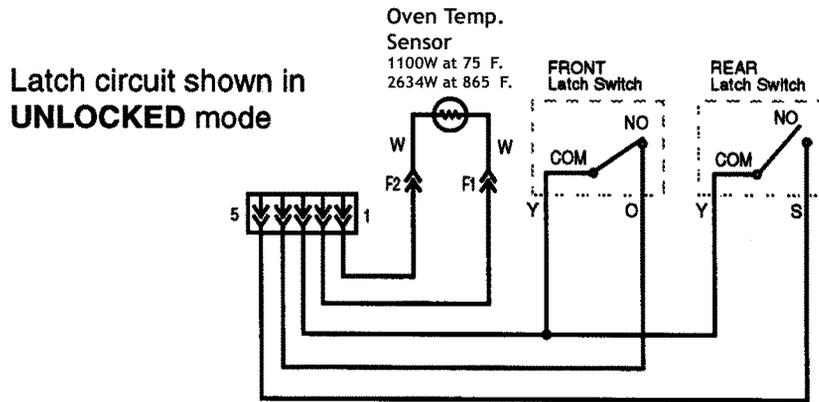
Convection Roast Circuit



Convection Bake Circuit



Door Latch Mechanism



Warranty Information



All warranty service provided by our Factory Service Centers or an authorized Customer Care technician. For service, call 800-GE-CARES.

For The Period Of:	GE Will Replace, At No Charge To You:
<p>One Year From the date of the original purchase</p>	<p>Any part of the range which fails due to a defect in materials or workmanship. During this full one-year warranty, GE will also provide, free of charge, all labor and in-home service to replace the defective part.</p>
<p>Five Years From the date of the original purchase (on glass cooktop models only)</p>	<p>A replacement glass cooktop if it should crack due to thermal shock, discolor, or crack at the rubber seal between the glass cooktop and the porcelain edge. It will also be replaced if the pattern wears off or if the warming zone surface unit burns out. During this five-year warranty, you will be responsible for any labor or in-home service.</p>

What GE Will Not Cover:

- Service trips to your home to teach you how to use the product.
- Improper installation.
- Failure of the product if it is abused, misused, or used for other than the intended purpose or used commercially.
- Damage to the glass cooktop caused by hardened spills of sugary materials or melted plastic that are not cleaned according to the directions in the Owner's Manual.
- Damage to the glass cooktop caused by use of cleaners other than the recommended cleaning creams.
- Replacement of house fuses or resetting of circuit breakers.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage to personal property caused by possible defects with this appliance.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company. Louisville, KY 40225

Consumer Services

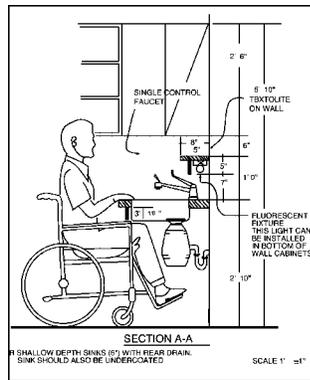
GE Answer Center® **800.626.2000**

Whatever your question about any GE major appliance, GE Answer Center® information service is available to help. Your call—and your question—will be answered promptly and courteously. And you can call any time. GE Answer Center® service is open 24 hours a day, 7 days a week.

In-Home Repair Service **800.444.1845**

A GE Consumer Service professional will provide expert repair service, scheduled at a time that's convenient for you. Many GE Consumer Service company-operated locations offer you service today or tomorrow, or at your convenience (7:00 a.m. to 7:00 p.m. weekdays, 9:00 a.m. to 2:00 p.m. Saturdays). Our factory-trained technicians know your appliance inside and out—so most repairs can be handled in just one visit.

For Customers with Special Needs... **800.626.2000**



GE offers, free of charge, a brochure to assist in planning a barrier-free kitchen for persons with limited mobility. Consumers with impaired hearing or speech who have access to a TDD or a conventional teletypewriter may call 800.TDD.GEAC (800.833.4322) to request information or service.

Service Contracts **800.626.2224**

You can have the secure feeling that GE Consumer Service will still be there after your warranty expires. Purchase a GE contract while your warranty is still in effect and you'll receive a substantial discount. With a multiple-year contract, you're assured of future service at today's prices.

Parts and Accessories **800.626.2002**

Individuals qualified to service their own appliances can have parts or accessories sent directly to their home. The GE parts system provides access to over 47,000 parts...and all GE Genuine Renewal Parts are fully warranted. VISA, MasterCard and Discover cards are accepted.

User maintenance instructions cover procedures intended to be performed by any user. Other servicing generally should be referred to qualified service personnel. Caution must be exercised, since improper servicing may cause unsafe operation.