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WEB CONTACTS:

Web Site	Address	Description
LG USA	www.lgusa.com	Product information
Customer Service	us.lgservice.com	User manuals, FAQs
GCSC	aic.lgservice.com	Service manuals, parts, bulletins
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LRE30955ST (ELECTRIC RANGE)

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IMPORTANT SAFETY NOTICE

The information in this training manual is intended for use by persons possessing an adequate background in electrical equipment, electronic devices, and mechanical systems. In any attempt to repair a major appliance, personal injury and property damage can result. The manufacturer or seller maintains no liability for the interpretation of this information, nor can it assume any liability in conjunction with its use. When servicing this product, under no circumstances should the original design be modified or altered without permission from LG Electronics. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury. If wires, screws, clips, straps, nuts, or washers used to complete a ground path are removed for service, they must be returned to their original positions and properly fastened.

CAUTION

To avoid personal injury, disconnect the power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks. Also be aware that many household appliances present a weight hazard. At least two people should be involved in the installation or servicing of such devices. Failure to consider the weight of an appliance could result in physical injury.

ESD NOTICE

Some of the electronics in appliances are electrostatic discharge (ESD) sensitive. ESD can weaken or damage the electronics in these appliances in a manner that renders them inoperative or reduces the time until their next failure. Connect an ESD wrist strap to a ground connection point or unpainted metal in the appliance. Alternatively, you can touch your finger repeatedly to a ground connection point or unpainted metal in the appliance. Before removing a replacement part from its package, touch the anti-static bag to a ground connection point or unpainted metal in the appliance. Handle the electronic control assembly by its edges only. When repackaging a failed electronic control assembly in an anti-static bag, observe these same precautions.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and the receiver; Connect the equipment to an outlet on a different circuit than that to which the receiver is connected; or consult the dealer or an experienced radio/TV technician for help.

DISCLAIMER

The information in this training manual was accurate at the time of publication. Every effort has been made to ensure accuracy. Updates, changes, etc. are available via GCSC and LGCSacademy. The information in this manual is intended for persons with adequate backgrounds in electronics, mechanical, and electronic servicing. The manufacturer and seller are not to be held responsible for any liability incurred from its use.

COMPLIANCE

The responsible party for this device's compliance is LG Electronics Alabama, Inc.; 201 James Record Road, Huntsville, AL, 35813.

SAFETY

- Repairs should be completed by a trained and licensed technician only.
 Incorrect repairs or replacement parts can cause a dangerous situation.
- If the power cord is defective, it must be replaced by a trained and licensed servicer using a properly rated, UL Listed cord.
- Electrical leads, wires, and cables should not touch internal parts of the range.
- The range should be unplugged while repairs are underway.
- Reconnect all grounding devices when repairs are completed. Failure to do this could cause fire, electrical shock, personal injury, or death.
- Replace all parts and panels before operating the range.
- Do not step or stand on the door.
- Install the anti-tip bracket included with the range.
- Do not touch the heating elements or the interior surfaces of the oven.
- Use extreme caution when handling the sheet metal parts of the range.
 The edges can be VERY SHARP! We suggest wearing protective gloves.
- Use caution repairing the fan blade. Do not bend it.
- Be careful to avoid chipping or scratching the paint when removing or replacing the oven light socket.
- Unplug the range before removing the warming drawer.
- Be careful removing and replacing the door. DO NOT lift the door by its handle. The door is very heavy.
- Do not clean the oven door gasket.
- Do not use oven cleaners or other chemicals to clean the oven or range.
- Do not keep pet birds in the kitchen. The fumes from the self-clean cycle can be harmful or fatal to birds.

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SAFETY, continued

ANTI-TIP DEVICE

The anti-tip bracket must be installed to reduce the possibility of tipping the range. To verify that the anti-tip bracket is properly installed, grasp the top rear edge of the range back guard and carefully attempt to tip the range forward. Remove the warming drawer and visually inspect to ensure the rear leveling leg is fully inserted into the anti-tip bracket.

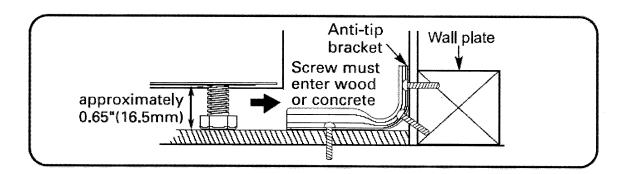
A WARNING







- DO NOT step or sit on the door. Install the Anti-Tip Bracket packed with range.
- The range could be tipped and injury might result from spilled hot liquid, food, or the range itself.
- If the range is pulled away from the wall for cleaning, service, or any other reason, ensure that the Anti-Tip Device is properly re-engaged when the range is pushed back against the wall.

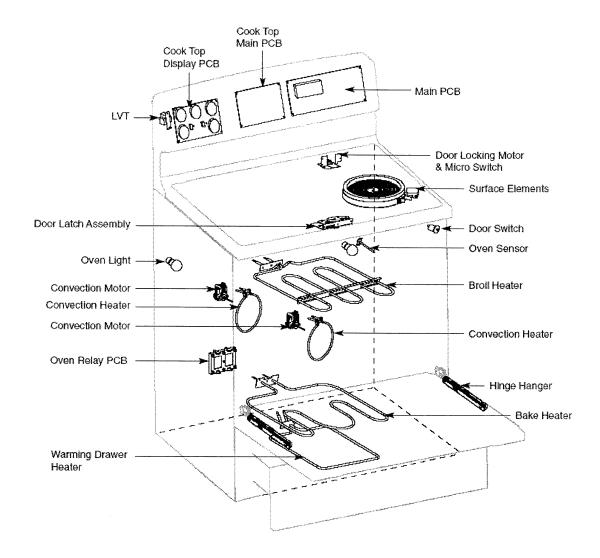


ELECTRIC RANGE TRAINING MANUAL

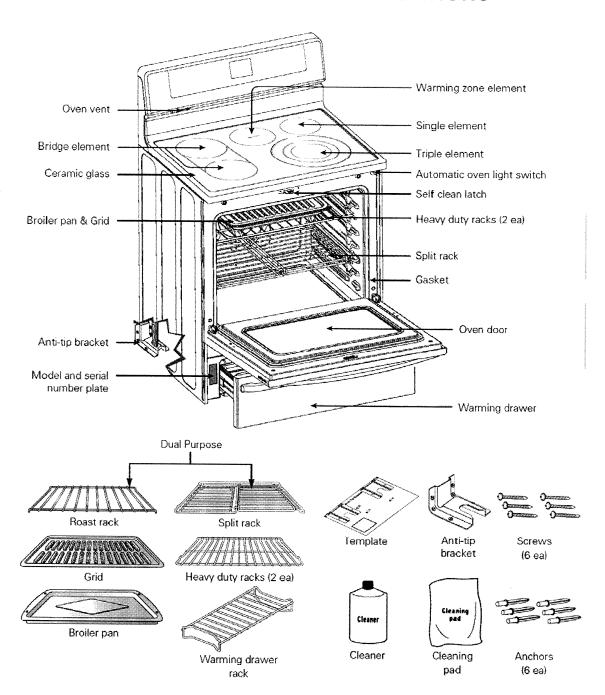
SPECIFICATIONS

Overall	Width	30"
	Installation Type	Freestanding
	Color Availability	Stainless Steel
Control	Oven	Glass Touchpad
	Cooktop	Glass Touchpad
	Display	VFD (Vacuum Fluorescent Display)
	Electronic Clock / Timer	YES
	Control Lock Capability	YES
	Audible Preheat Signal	YES
	Special Functions	Convection auto conversion ON / OFF
	•	Thermostat adjustment
		3. Language (English or French)
		Preheat alarm light ON / OFF
		5. Beeper Volume (Loud, normal, low, mute)
		6. Temperature °F / °C
Cooktop	Material	Ceramic glass
- comop	Elements	6
Power	Left Rear	7" 1,800 W
1 01101	Right Rear	6" 1,200 W
	Center Rear (Warming)	
	Center Left (Bridge)	100 W (Warming zone)
	Left Front	800 W (Bridge element) 7" 1 800 W
Oven	Right Front (Triple)	7" / 9" / 12" 1,100 / 2,200 / 3,000 W
Oven	Capacity Broil Element	5.60 cu. ft.
	j	4,000 W
	Bake Element	3,400 W
	Convection System	YES
	Convection Elements	700 W, 240 V AC (Two elements)
	Oven Racks	2 Full, 1 Split
	Oven Light	Automatic / Manual
	Proof Function	YES
	Cook and Warm	YES
	Favorites	1 Bread / 2 Meat / 3 Chicken
	Oven Door Lockout	YES
	Broiler Pan	
Drawer	Туре	Warming Drawer
	Element	600 W
	Warming Rack	YES
Dimensions	Oven Size (W x H x D)	24½ x 20¼ x 19¾
(inches)	Exterior Width	291/8
	Exterior Height (cooktop)	36
	Exterior Height (control)	475/8
	Exterior Depth (door)	25 ¹¹ / ₁₆
	Exterior Depth (handle)	28
Power	Rating	13.9 KW (120/240 V _{AC})
		9.6 KW (120/208 V _{AC})

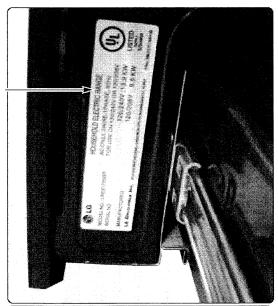
COMPONENT LOCATIONS



PART AND ACCESSORY LOCATIONS



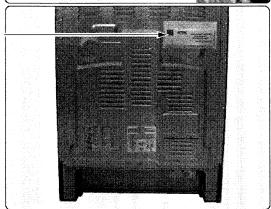
PART AND ACCESSORY LOCATIONS, continued



The MODEL NUMBER and SERIAL NUMBER are on a sticker on the lower left of the front panel, visible when the warming drawer is opened.

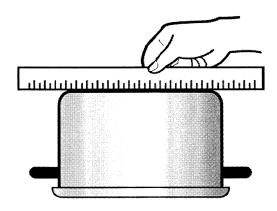
ALWAYS order parts by MODEL NUMBER and SERIAL NUMBER to ensure receiving the correct parts.

See the model and serial number decoding charts on page 82.



The TECH SHEET is in a plastic envelope taped to the back of the range. It contains sufficient information for most experienced service personnel to effect repairs in the absence of a service manual.

COOKWARE



Cookware must have a flat surface on the bottom.

Check it with a straight edge if you are unsure.

Do not use warped pots and pans on the glass cooktop.

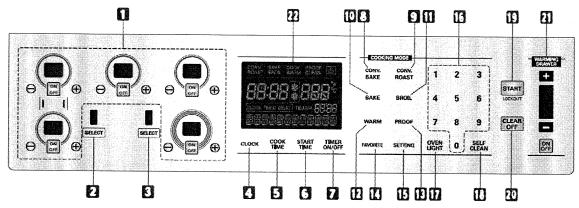
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OPERATION

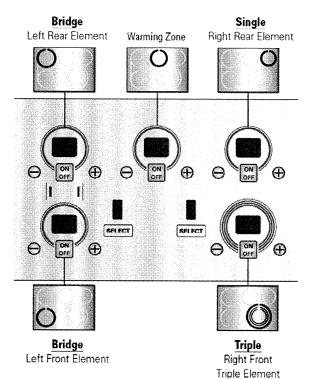
CONTROL PANEL



- 1. COOKTOP CONTROL
- 2. **SELECT** (Bridge element)
- 3. **SELECT** (Triple element)
- 4. **CLOCK** Set time of day
- 5. COOK TIME Set bake or broil time
- 6. **START TIME** Set delayed start
- 7. **TIMER** Operates the timer
- 8. CONV BAKE Convection bake
- 9. CONV ROAST Convection roast
- 10. **BAKE** Regular bake function
- 11. **BROIL** Variable broil function
- 12. WARM To hold food warm
- 13. **PROOF** To raise yeast dough
- 14. **FAVORITE** A user selection

- SETTING Selects custom settings. (See page 14.)
- 16. **NUMBER PADS** Enter time and temperature
- 17. OVEN LIGHT Turns light on/off.
- 18. **SELF CLEAN** Cleans the oven
- 19. **START** Initiates all oven functions and oven lockout.
- 20. **CLEAR OFF** Stops functions, cancels entries
- 21. **WARMING DRAWER** Controls the warming drawer.
- 22. **DISPLAY AREA** Shows the time of day, oven temperature, functions, and modes.
- F-Codes A failure code (See page 53.)
- **HS** Hot Surface
- **PF** Power Failure

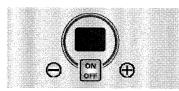
SURFACE CONTROLS

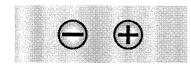


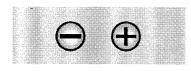
The surface element controls are laid out in the same configuration as the elements to make them intuitive to use.

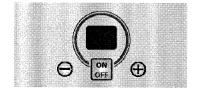
Notice that the **LEFT FRONT** control also operates the bridge element.

The **SELECT** pad next to the control allows the user to select between the **FRONT / BRIDGE / REAR** in combination and the **LEFT FRONT**.









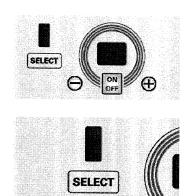
To operate a surface element, touch **ON / OFF** for that element.

The display will flash - - .

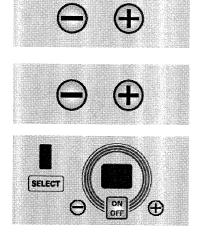
Touch + once for **HIGH**, or Touch – once for **LOW**.

You can touch + or – to adjust the heat up or down anytime the element is on.

Touch **ON / OFF** once to turn the element off.



Setting	Size of Element
Single light SELECT	• Single Element (6" element)
Double light SELECT	• Double Element (6" and 9" elements)
Triple light B SELECT	• Triple Element (6", 9" and 12"elements)



To operate the triple surface element, touch **ON / OFF** for that element.

The display will flash - - .

Touch **SELECT** to cycle through the selections of **INNER**, **MIDDLE**, and **OUTER** elements.

The SELECT display will show:

Inner element only

Inner and middle elements

Inner, middle, and outer elements

Touch + once for **HIGH**, or Touch – once for **LOW**.

You can touch + or – to adjust the heat up or down anytime the element is on.

Touch **ON / OFF** once to turn the element off.

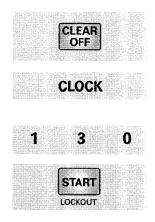
The power level is adjusted up or down by touching + or -. The level increments or decrements by 0.5 between 3.0 and 9.0. Between 1.0 and 3.0, the interval is 0.2 instead of 0.5. **LO** is the lowest power level available

HS indicates a Hot Surface. PF indicates a Power Failure.

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OTHER FEATURES

SETTING THE CLOCK



Touch CLEAR.

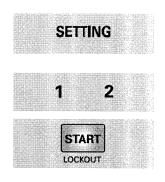
Touch CLOCK.

Touch the **NUMBER PADS** to set the

correct time.

Touch START.

SETTING AUTO CONVERSION



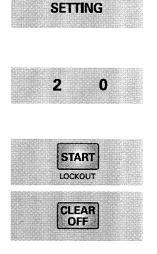
This feature will automatically convert regular baking temperatures for convection baking.

Touch **SETTING**.

Touch 1 (Enable) or 2 (Disable).

Touch START.

OVEN TEMPERATURE ADJUSTMENT



If the oven appears to be too hot or cool compared to the expected baking results, the temperature can be adjusted \pm 35° F (\pm 17° C) to compensate.

Touch **SETTING** twice.

Touch the **NUMBER PADS** to input the desired adjustment.

(Touch **SETTING** again to input a negative adjustment.)

Touch START, then touch CLEAR.

SETTING LANGUAGE

SETTING

Touch **SETTING** three times.

1 2

Touch 1 (English) or 2 (Spanish).

Touch **START** to input the change.

START

SETTING PREHEAT ALARM LIGHT

SETTING

Touch **SETTING** four times.

1 2

Touch 1 (ON) or 2 (OFF).

Touch **START** to input the change.



SETTING BEEPER VOLUME

SETTING

Touch **SETTING** five times.

1 2

Touch 1 (LOUD), 2 (NORMAL), 3 LOW, or 4 (MUTE).



Touch **START** to input the change.

SETTING TEMPERATURE UNIT

SETTING

Touch **SETTING** six times.

1 2

Touch 1 (° FAHRENHEIT) or 2 (° CELSIUS).

START

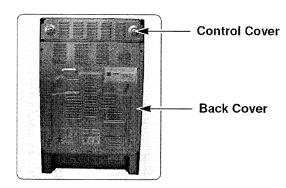
Touch **START** to input the change.

DISASSEMBLY and REPAIR

WARNING!

- Always disconnect the power cord before servicing the range.
- Replace all panels and parts before operating the range after repairs.
- Reconnect all grounding devices, clips, pins, and wires. Failure to do this
 could result in personal injury, electric shock, or death.
- Wear gloves to protect your hands from the sharp edges of sheet metal.

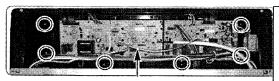
BACK COVER and CONTROL COVER



Remove 3 screws that secure the control cover. Remove the cover and store it where it will not be bent or damaged.

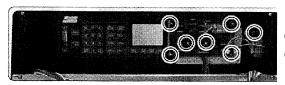
Remove 17 screws that secure the back cover. Remove the cover and stow it where it will not be bent or damaged.

PCB ASSEMBLY



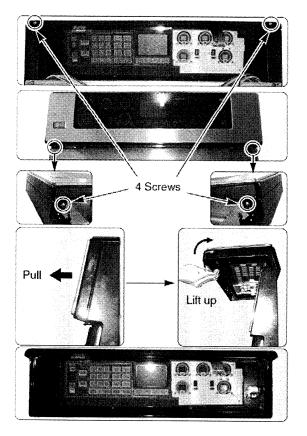
Unplug the connectors from the PCB.

Remove 6 screws and take out the board.



Remove 6 screws from the cooktop display board and 1 screw from the control power supply.

PCB ASSEMBLY, continued



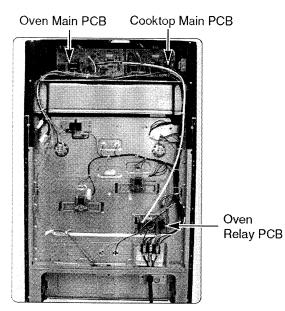
Remove 4 screws that attach the controller subassembly to the supporters.

NOTE: Two of the screws are hidden under the bottom edge of the control panel. (See illustration.)

Pull the controller subassembly out at the bottom from the front and lift it up and over the top.

To service the key membrane, the panel should be completely removed from the range.

CONTROL POWER SUPPLY and POWER CONTROL BOARD (PCB)



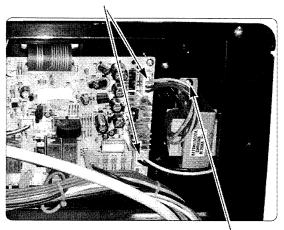
There are 3 power control boards in this range. When checking these boards, be sure to check the right one, make sure it is in default mode, and check the main board as well.

See pages 40 ~ 42 for more information concerning the various boards in the range.

The 3 power control boards are:
Oven Main Board
Cooktop Main Board
Oven Relay Board

CONTROL POWER SUPPLY



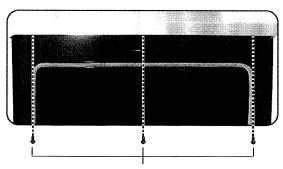


1 Screw

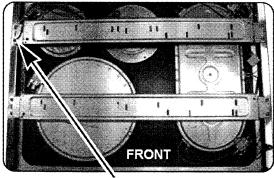
Unplug both connectors on the power control board.

Remove the screw near the low-voltage transformer to remove the board from the range.

CERAMIC GLASS COOKTOP



3 Screws



Ground Screw

Unplug the range before beginning.

Open the oven door.

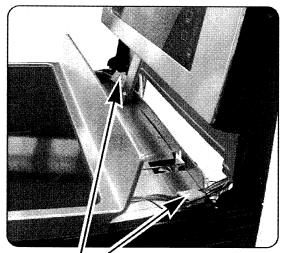
Remove 3 screws under the front of the cooktop.

Close the oven door.

Lift the cooktop from the front and remove the screw securing the ground wire.

ELECTRIC RANGE TRAINING MANUAL

CERAMIC GLASS COOKTOP, continued



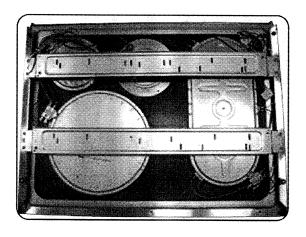
2 Connectors

Lift the glass cooktop slightly and pull it slightly forward to expose the connectors on each side.

Unplug both connectors. You'll need to squeeze the tabs to separate the halves of the connectors.

Put a piece of cardboard or an old blanket over the range top and turn the cooktop over to service it.

SURFACE ELEMENT

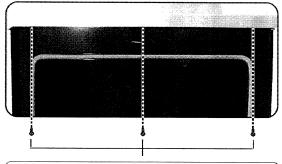


Remove the wires from the elements and limiter terminals. The connectors may be equipped with release tabs that must be pressed to release the connector.

Remove the element bracket screw to release the bracket. Lift the bottom of the bracket just far enough to lift the element out.

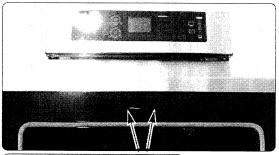
Notice the numerous slots in the bracket. Each slot is numbered. Be sure to reinstall the element in the correct slots. You might want to mark all the slots to indicate which is which.

DOOR SWITCH and LATCH



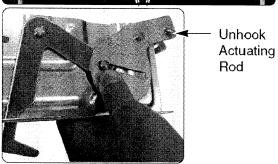
Unplug the range.

Open the oven door and remove 3 screws under the top edge.

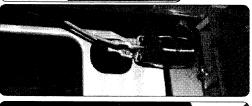


Remove 2 screws on the front face of the oven.

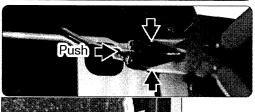
Lift the cooktop.



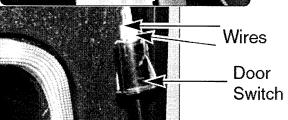
Remove the latch from the burner box and detach the actuating rod.



To remove the door switch, lift the cooktop as described above.



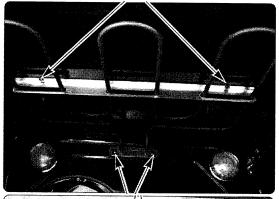
Squeeze the retainer tabs on the switch and push it out toward the front of the range. You may have to tap it.



Disconnect the wires from the terminals.

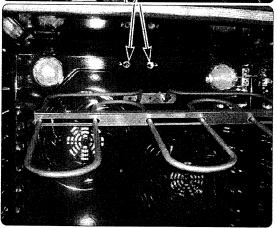
Attach a new switch to the terminals and push it back into the hole until the retainer tabs click into place.

BROIL ELEMENT



To remove the broil element, remove two screws on the bracket at the back of the oven.

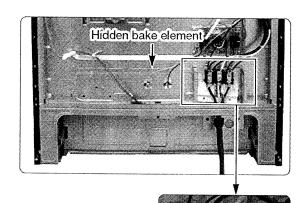
Remove two screws on the upper bracket.



Pull the element forward in to the oven to allow you to disconnect the terminals.

To replace the element, reconnect the terminals, feed the wires back through the holes and insulation, and replace the 4 screws in the support brackets.

BAKE ELEMENT (HIDDEN)



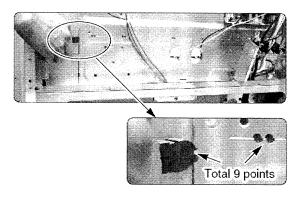
Unplug the range before continuing.

Remove the back cover. (See page 16.)

Remove 2 screws from the power cord box and 1 ground screw.

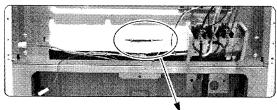
Push the box aside.

BAKE ELEMENT (HIDDEN), continued

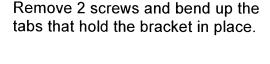


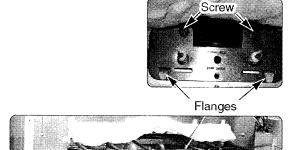
Cut the 9 points that hold the bake heater cover in place and remove the cover.

It is a good idea to bend the points on the range inward or clip them off to avoid being stuck or cut in the future.



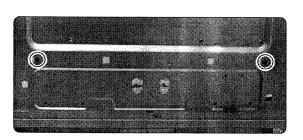
Push the fiberglass insulation out of the way.





Pull the hidden bake element and mounting bracket out of the range.

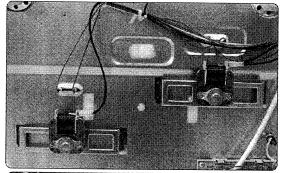
Replace the bake element, tighten the 2 screws on the bracket, and bend the bracket tabs down.



Take the bake heater cover, turn it over, and use 2 sheet metal screws to secure it.

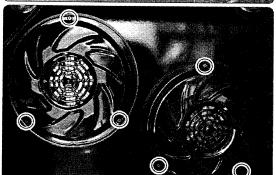
Bend the points down or clip them off to avoid being stuck or cut in the future.

CONVECTION ELEMENT, FAN BLADE, and FAN MOTOR



Remove the back cover. (See page 16.)

Disconnect the wires on the fan motor

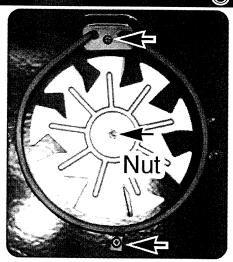


Remove the 3 screws from the fan covers in the oven.

and on the convection element.

Unplug the range and pull it out so you have access from both front and rear.

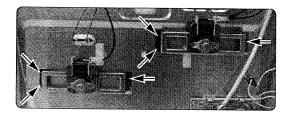
Set the cover(s) aside to prevent damage or bending.



Remove the screws from the convection element bracket and retainer and pull the element forward.

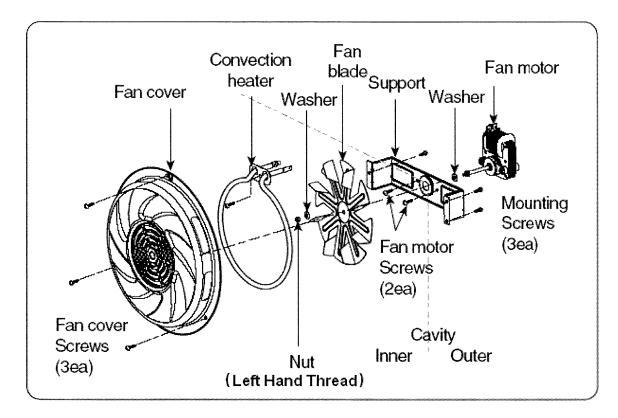
When removing the fan blade, notice that the nut is a left-hand thread. The fan blade can be replaced from inside the oven without opening the back cover.

DO NOT BEND the blade, or the fan will run out of balance, causing noise, vibration, and poor convection performance.

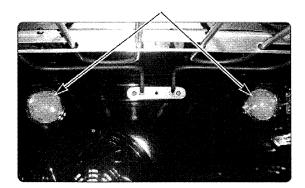


Remove 3 screws and pull the fan motor assembly forward.

EXPLODED VIEW, CONVECTION FAN MOTOR ASSEMBLY



OVEN LIGHT and SOCKET



Unplug the range or disconnect the power to change the bulbs or service the lights. If a bulb is broken, the leads will be live when the door is open.

To replace the bulb, unscrew the glass cover and remove the bulb. Replace the bulb ONLY with a small, 40-watt appliance bulb.

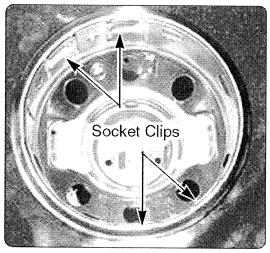
Replace the glass cover.

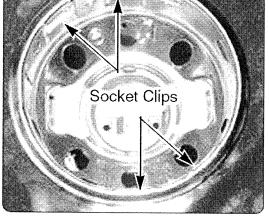
Be careful to avoid scratching or chipping the paint inside the oven

LRE30955ST Page 24 TRAINING MANUAL

ELECTRIC RANGE TRAINING MANUAL

OVEN LIGHT and SOCKET, continued



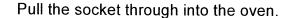


You might be able to remove the socket from inside the oven without removing the back cover.

Remove the glass cover and the bulb.

Use a screwdriver to bend the clips away from the edges of the oven liner hole and pull the socket out of the liner.

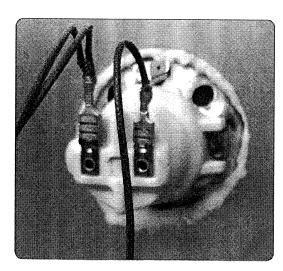
If you can't get it out this way, you'll have to remove the back cover to push it through or sacrifice it and replace it with a new socket assembly.



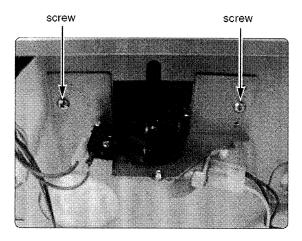
Disconnect the wires from the socket terminals. You might tape them to the oven wall to keep them from jumping back into the hole while you replace the socket.

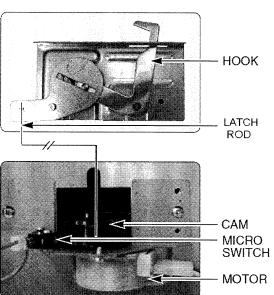
Press the socket into place properly oriented.

Replace the bulb and glass cover.



LATCH and LATCH DRIVE





Unplug the range.

Remove the back cover and the control cover. (See page 26.)

Disconnect the wires from the latch motor and switch.

Remove the 2 screws from the latch motor bracket.

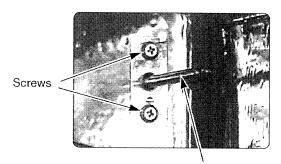
Unhook the latch rod from the cam.

When the oven is set for SELF CLEAN, the motor rotates, pushing the latch rod and moving the latch to the locked position as determined by the cam on the motor.

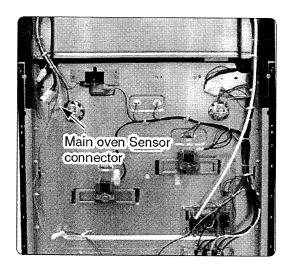
The latch will remain locked until the oven temperature drops below 500° F. At that time, the motor will rotate and pull the latch to the open position.

OVEN TEMPERATURE SENSOR

It may be possible to replace the sensor without taking the back cover off.



Main oven sensor



Unplug the oven.

Remove all the racks from the oven.

Remove the two screws that attach the sensor to the oven back.

Pull the sensor and its wires into the oven through the hole, being careful not to damage the wires.

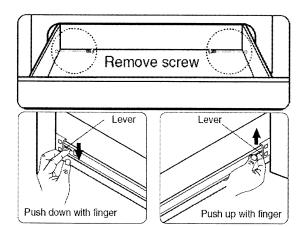
Unplug the connector.

Plug in the new connector and push the wires back through the hole.

Replace the 2 screws that hold the sensor to the back of the oven.

If there isn't enough slack to pull the wires as described above, you'll need to remove the back cover to complete this repair. (See page 16.)

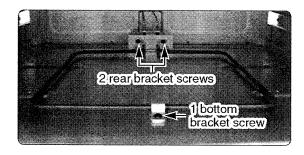
WARMING DRAWER ELEMENT



Pull the drawer all the way open.

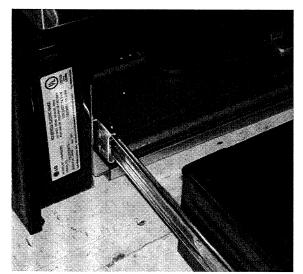
Remove the screws, one on each side, as shown.

Push the glide lever (down on the left, up on the right) and pull the drawer off the runners.



Remove the bottom bracket screw and the 2 screws at the rear bracket.

Pull the element forward and disconnect the wires from the terminals.



Replacement of the warming drawer is the opposite of removal.

Pull the runners all the way out.

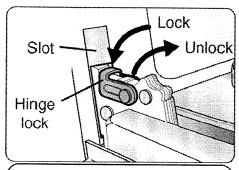
Align the runners with the slots on the range.

Push the drawer in until the levers click into place. (Approx. 2 inches.)

Pull the drawer open to seat the glides into position.

If you don't hear the levers click, or the bearing glides do not feel seated, remove the drawer and repeat these steps.

OVEN DOOR



Open the oven door completely flat.

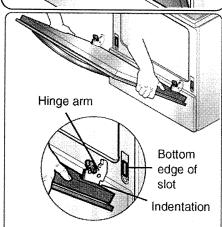
Pull the hinge locks up (forward) toward the door frame to the unlocked position.



Firmly grasp both sides of the door at the top (near the handle).

Close the door to the removal position (barely open).

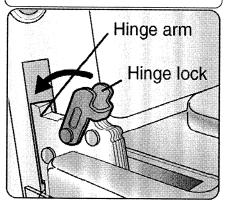
Lift the door up and out until the hinge arm clears the slots in the door.



Replacement is the reverse of these steps.

Firmly grasp both sides of the door at the top (near the handle).

Hold the door at the same angle as for removal and seat the indentation of the hinge arm onto the bottom of the slot on both sides.



Open the oven door completely flat.

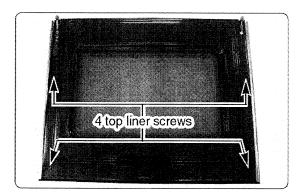
Push the hinge locks toward the front frame of the oven cavity into the locked position.

Close the oven door.

If the door does not open and close smoothly, remove the door and repeat the process.

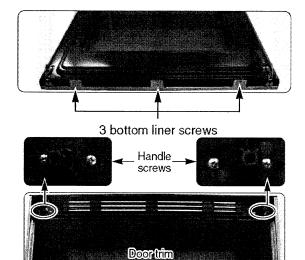
OVEN DOOR HANDLE, GLASS, and HINGE

Use extreme caution when handling the sheet metal parts of the range. There are sharp edges and you can be seriously injured. We recommend wearing safety gloves while working on the range.



Remove the oven door from the range. (See page 29.) Set it face down on a blanket or pad to protect the finish.

Remove the 4 top door liner screws.



Remove the 3 screws from the bottom of the liner.

Lift the liner off the front glass and set it aside on a pad or blanket.

Remove the 4 door handle screws and lift the door off the handle. Set it aside where it will be protected from damage.

Slide the door trim out of the way.

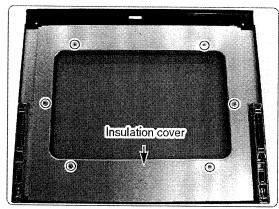
OVEN DOOR HANDLE, GLASS, and HINGE, continued



Remove the 4 top liner screws. (See page 30.) Set it face down on a blanket or pad to protect the finish with the hinge hangers hanging over the edge.

Remove the 2 bottom screws.

Lift the hinge hanger out of the slot in the door liner.

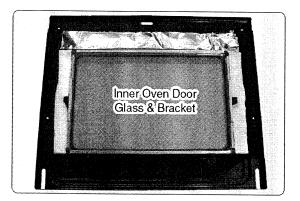


To remove the oven door glass, remove both hinge hangers. (See above.)

Remove the 6 screws securing the door liner.

Lift the insulation cover off the liner.

CAUTION! Insulation cover sheet metal has very sharp edges.

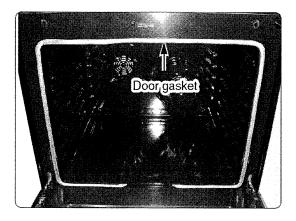


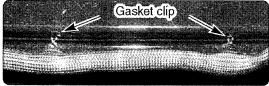
Lift the inner door glass assembly bracket out of the liner.

If you disassemble the glass, be reminded that the inner and outer glasses are different. The outer glass has a more rounded edge.

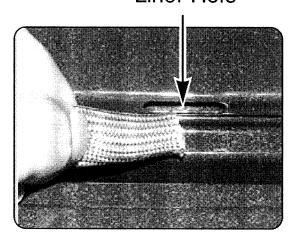
When you reinstall the insulation, make absolutely sure the insulation is not visible in the glass after the door is reassembled.

OVEN DOOR GASKET





Liner Hole



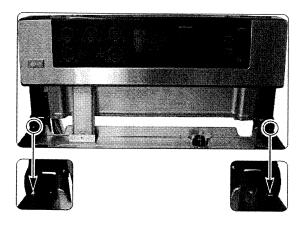
Open the oven door completely flat.

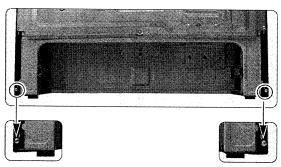
Pull the oven gasket clips out of the holes in the liner until all the clips have been removed. This gasket will not be re-usable.

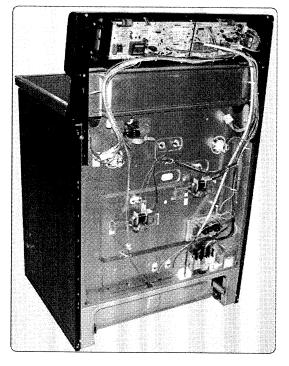
Pull the ends of the gasket out of the holes in the liner and discard the gasket.

When you install the new gasket, start with the clip at the top of the oven and proceed in both directions, inserting a clip on one side and then the other. When you get to the free ends, use the pointed end of a pencil to push the end through the hole.

SIDE PANELS







Unplug the range before beginning.

Remove the oven door. See page 29.

Remove the rear panel. See page 15.

Raise the cooktop and prop it up so it is not pressing on the side panel to be removed.

Remove the screw from the top rear of the side panel.

Remove the screw from the bottom of the side panel on the back.

Pull the back edge of the side panel about 10" (25 mm) out from the range.

Push it forward and remove the side panel.

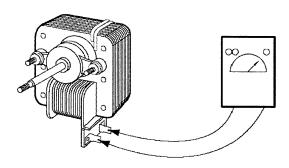
Back with covers removed.

COMPONENT TESTING

WARNING!

- Always disconnect the power cord before servicing the range.
- Replace all panels and parts before operating the range after repairs.
- Reconnect all grounding devices, clips, pins, and wires. Failure to do this could result in personal injury, electric shock, or death.
- Wear gloves to protect your hands from the sharp edges of sheet metal.
- The most common cause of control failure is corrosion on the connectors.
 Disconnecting and reconnecting connectors will be an important part of all testing procedures.
- All tests should be made using a DVM with a sensitivity of 20,000 Ω per volt DC or greater.
- Resistance checks must be made with the range unplugged and the component disconnected from the circuit.

CONVECTION FAN MOTOR



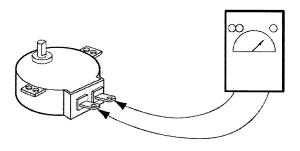
Normal resistance is 65 Ω ± 10%.

Replace if not within this spec.

Infinite resistance indicates an open circuit; less than 5 Ω indicates a short.

120 V_{AC} motor

DOOR LOCKING MOTOR



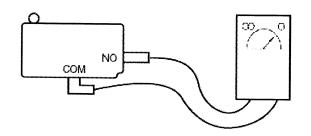
Normal resistance is 2.6 k Ω ± 10%.

Replace if not within this spec.

Infinite resistance indicates an open circuit; less than 5 Ω indicates a short.

120 V_{AC} motor

MICROSWITCH (Normally Open Type)

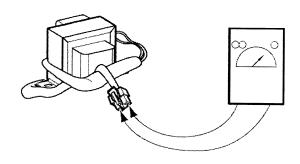


Latch open = continuity.

Latch closed = Infinite resistance.

Be sure the switch is connected correctly.

LOW VOLTAGE TRANSFORMER (LVT)

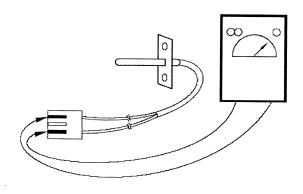


Normal resistance is 26 $\Omega \pm 10\%$.

Replace if not within this spec.

Primary input is 120 V_{AC} black to white Secondary voltages are: 18 V_{AC} yellow to yellow and 9 V_{AC} red to red. (See page 44.)

OVEN SENSOR

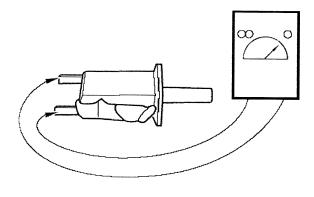


Measure when cool. (room temperature of 77° F / 25° C)

Normal resistance is $1.09 \text{ k}\Omega \pm 10\%$.

Replace if not within this spec.

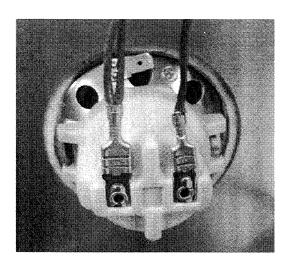
DOOR SWITCH



Door open (plunger out) = continuity.

Door closed = infinite resistance.

OVEN LAMP



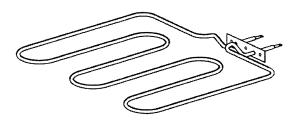
Normal resistance = less than 5 Ω .

Replace if not within this spec.

120 V_{AC} Lamp (Use 40-watt bulbs.)

CAUTION! The door switch and relay board break the neutral side of the line. A 120 VAC potential to chassis ground exists at all times. Unplug the range to change the bulb.

BROIL ELEMENT (4,000 watts @ 240 V_{AC})

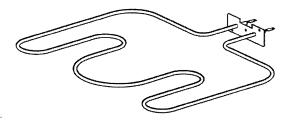


Measure when cool. (room temperature of 77° F / 25° C)

Normal resistance is 14 $\Omega \pm 10\%$.

Replace if not within this spec.

BAKE ELEMENT (3,400 watts @ 240 V_{AC})



Measure when cool. (room temperature of 77° F / 25° C)

Normal resistance is 17 $\Omega \pm 10\%$.

Replace if not within this spec.

CONVECTION ELEMENT (700 Watts [each] @ 240 V_{AC}) (2 installed)

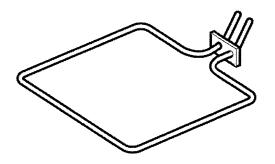


Measure when cool. (room temperature of 77° F / 25° C)

Normal resistance is 80 Ω ± 10%.

Replace if not within this spec.

WARMING DRAWER ELEMENT (600 watts @ 240 V_{AC})

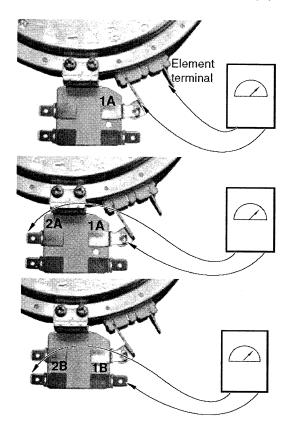


Measure when cool. (room temperature of 77° F / 25° C)

Normal resistance is 95 $\Omega \pm 10\%$.

Replace if not within this spec.

RIGHT REAR ELEMENT (SINGLE) (1,200 watts @ 240 V_{AC})



Disconnect the wires from the cooktop element.

Test between the element terminal and terminal **1A**.

Normal resistance is 46 $\Omega \pm 10\%$.

Test between limiter terminals **1A** and **2A**.

Normal resistance is 0 Ω . (Continuity)

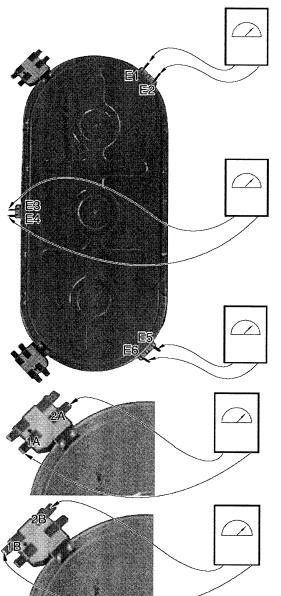
Test between limiter terminals **1B** and **2B**.

Below 150° F = infinite resistance (open)

Above 150° F = continuity (0 Ω)

Replace the element if any test shows the element to be out of spec.

BRIDGE CIRCUIT ELEMENTS (LEFT FRONT, CENTER, and REAR) LEFT FRONT 7" (1,200 watts @ 240 V_{AC}) LEFT REAR 7" (1,200 watts @ 240 V_{AC}) BRIDGE ELEMENT (800 watts @ 240 V_{AC})



Disconnect the wires from the cooktop element.

Test between terminals **E1** and **E2**. Normal resistance is $33 \Omega \pm 10\%$.

Test between terminals **E3** and **E4**. Normal resistance is $70\Omega \pm 10\%$.

Test between terminals **E5** and **E6**. Normal resistance is 31 $\Omega \pm 10\%$.

Replace the element if any test shows the element to be out of spec.

Test between terminals **1A** and **2A** on both front and rear elements.

Normal resistance is 0 Ω (continuity).

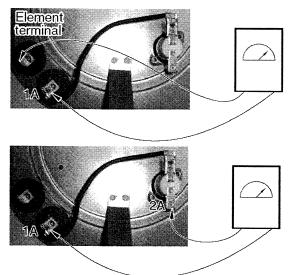
Test between limiter terminals **1B** and **2B** on both front and rear elements.

Below 150° F = infinite resistance (open)

Above 150° F = continuity (0 Ω)

Replace the element if any test shows the element to be out of spec.

CENTER REAR ELEMENT (WARMING ZONE) (100 watts @ 240 V_{AC})



Disconnect the wires from the cooktop element.

Test between the element terminal and terminal **1A**.

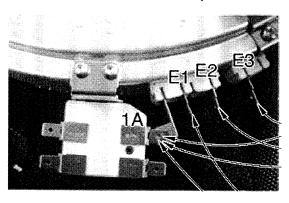
Normal resistance is 571 $\Omega \pm 10\%$.

Test between the limiter terminals **1A** and **2A**.

Normal resistance is less than 0.5Ω .

Replace the element if any test shows the element to be out of spec.

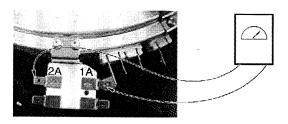
RIGHT FRONT ELEMENT (TRIPLE SURFACE UNIT)



Test between terminals 1A and E3. Normal resistance is $70.5 \Omega \pm 10\%$ (OUTER 800 watts @ 240 VAC)

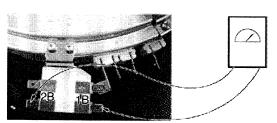
Test between terminals 1A and E2. Normal resistance is $50.0\Omega \pm 10\%$. (MIDDLE 1,100 watts @ 240 VAC)

Test between terminals 1A and E1. Normal resistance is 49.5 Ω ± 10%. (INNER 1,100 watts @ 240 VAC)



Test between limiter terminals **1A** and **2A**.

Normal resistance is 0 Ω . (continuity)



Test between limiter terminals **1B** and **2B**.

Below 150° F = infinite resistance (open)

Above 150° F = continuity (0 Ω)

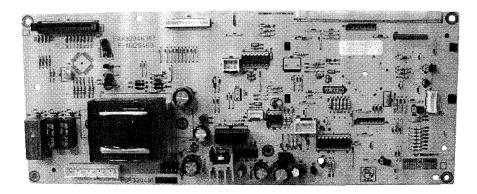
Replace the element if any test shows the element to be out of spec.

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CONTROL

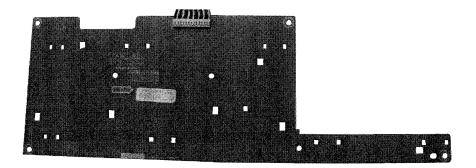
OVEN MAIN PCB

(Part # EBR32048101)



- DC Power source (Ground, +5 V, +15 V, -30 V)
- Oven heater control
- Oven and warming drawer display control
- Oven lamp / door lock motor / convection fan control
- Buzzer
- Keypad entry
- Door open / close / lock / unlock detection
- Error mode detection and popup

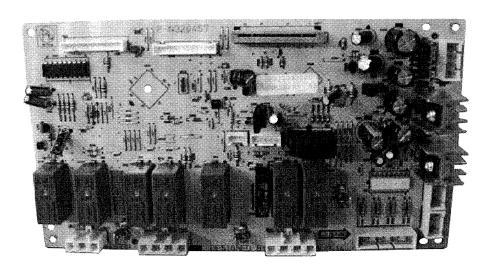
OVEN DISPLAY MAIN PCB (Part # EBR32048201)



- Oven keypad backlighting display
- Warming drawer power level indicator (5 levels)

COOKTOP DISPLAY PCB

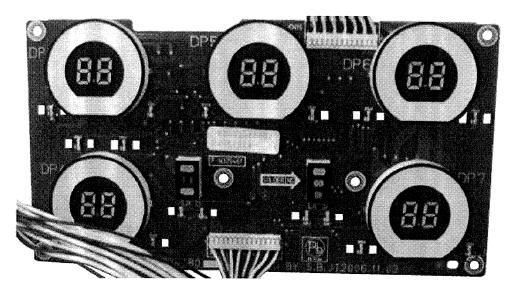
(Part # EBR32047701)



- DC power source (Ground, +5 V, +15 V)
- Surface element relay power switching
- Hot surface indication
- Cooktop heater control
- Cooktop display control

COOKTOP DISPLAY MAIN PCB

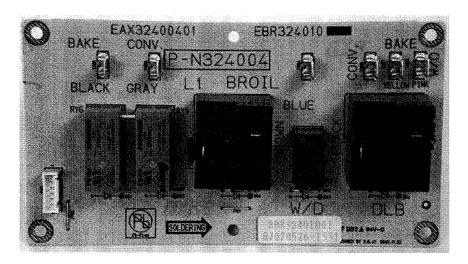
(Part # EBR32048001)



Surface element power level indication

OVEN RELAY PCB

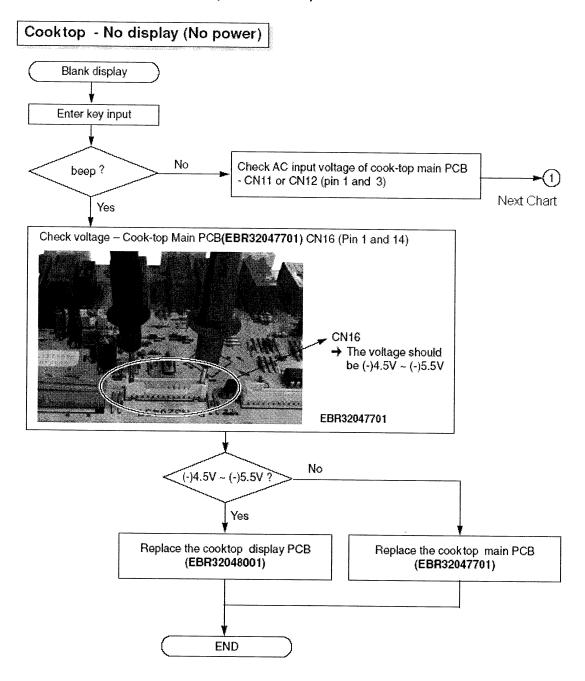
(Part # EBR32401001)



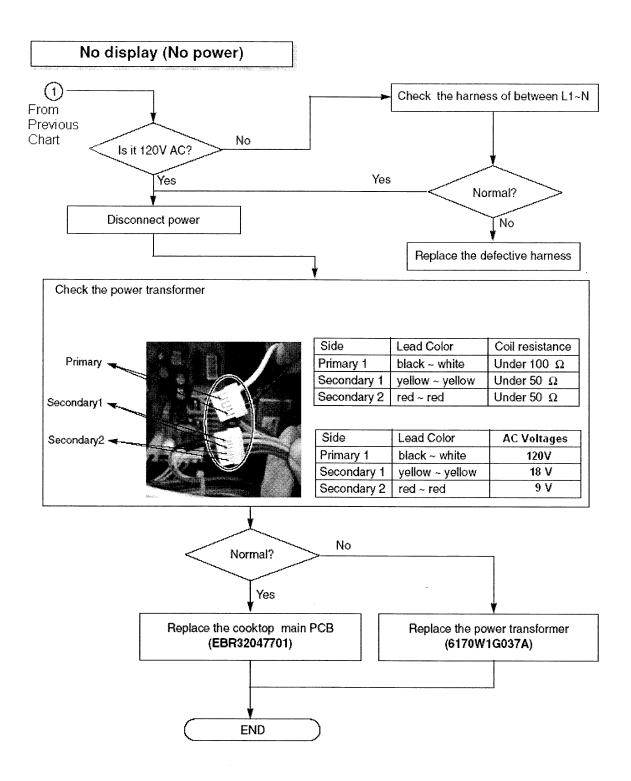
Oven heater relay switching

TROUBLESHOOTING FLOW CHART

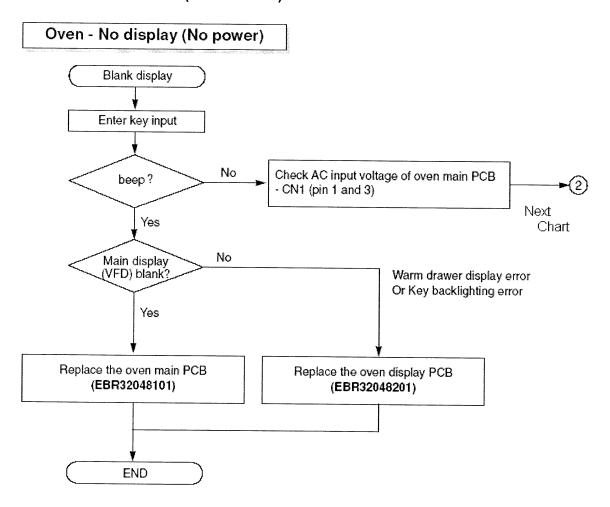
COOKTOP - NO DISPLAY (NO POWER)



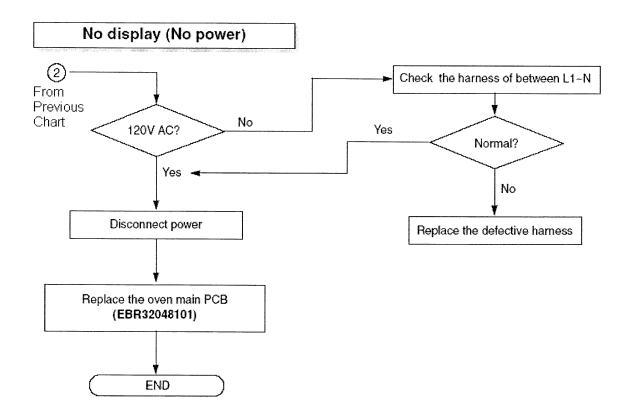
NO DISPLAY - NO POWER



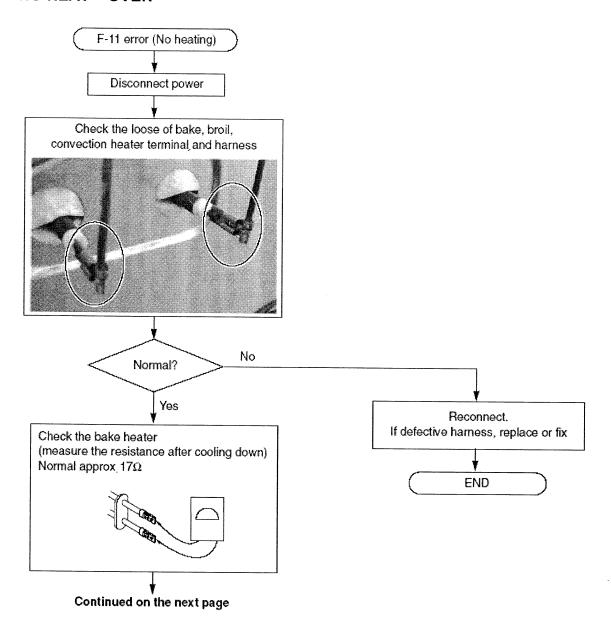
OVEN - NO DISPLAY (NO POWER)



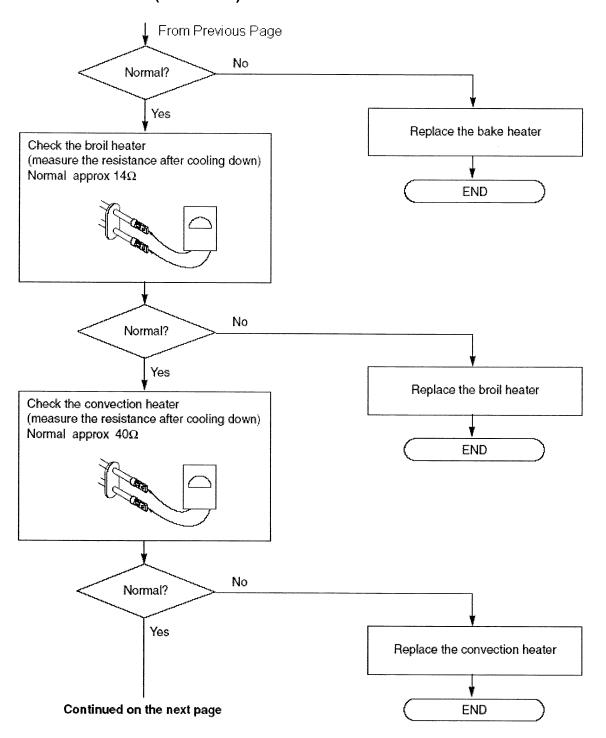
NO DISPLAY – NO POWER



NO HEAT - OVEN

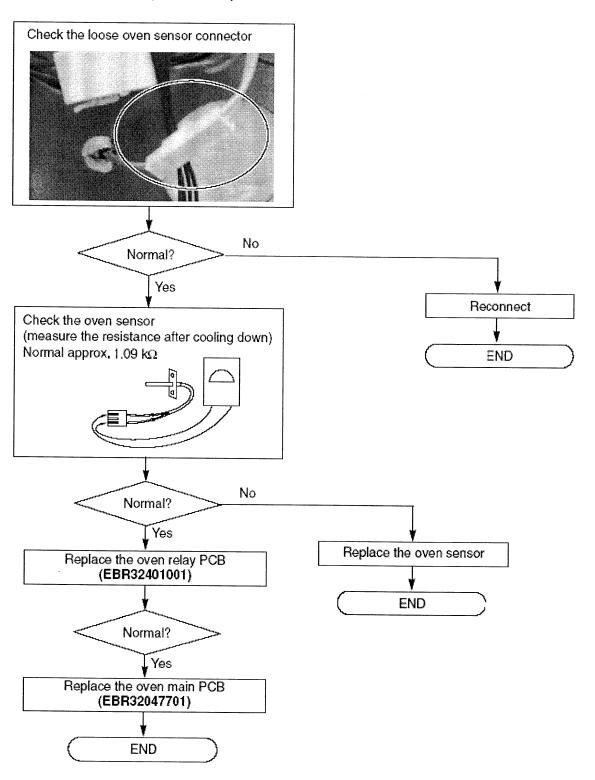


NO HEAT – OVEN (continued)

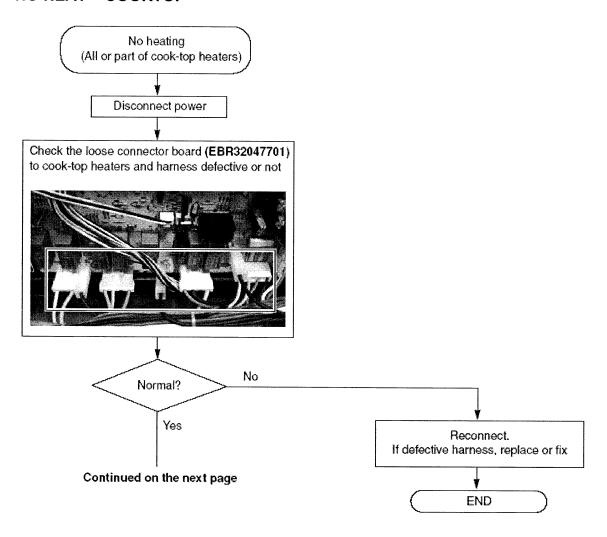


ELECTRIC RANGE TRAINING MANUAL

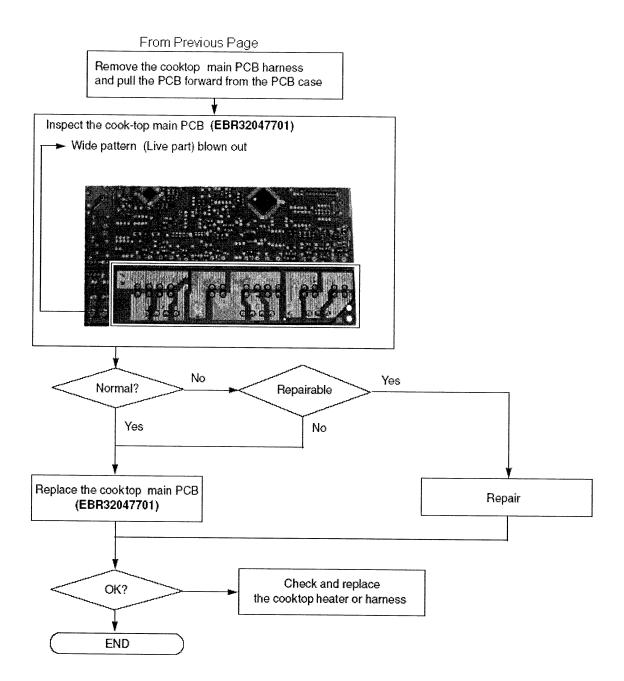
NO HEAT – OVEN (continued)



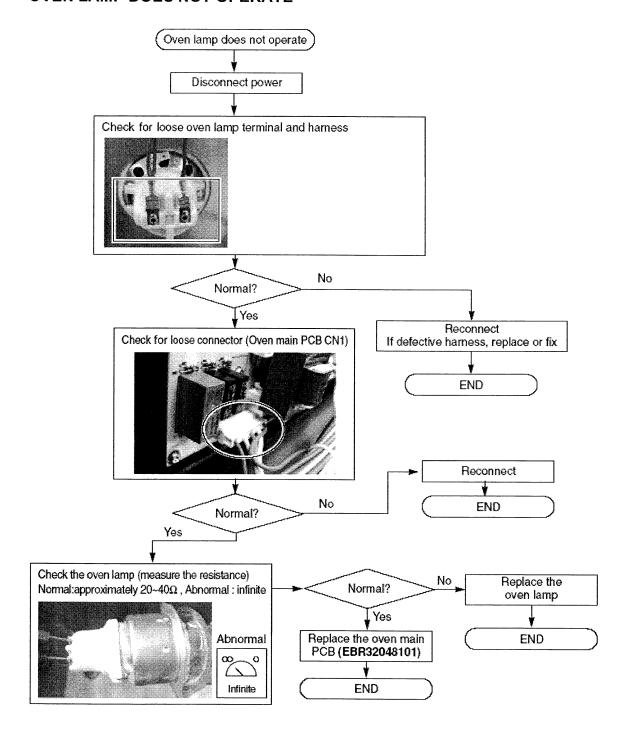
NO HEAT - COOKTOP



NO HEAT - COOKTOP (continued)



OVEN LAMP DOES NOT OPERATE



FAILURE CODES (F-CODES)

F-Codes ON DISPLAY

Before proceeding, perform the following three steps.

STEP 1 – Press STOP/CLEAR and START simultaneously to verify the **F**-code.

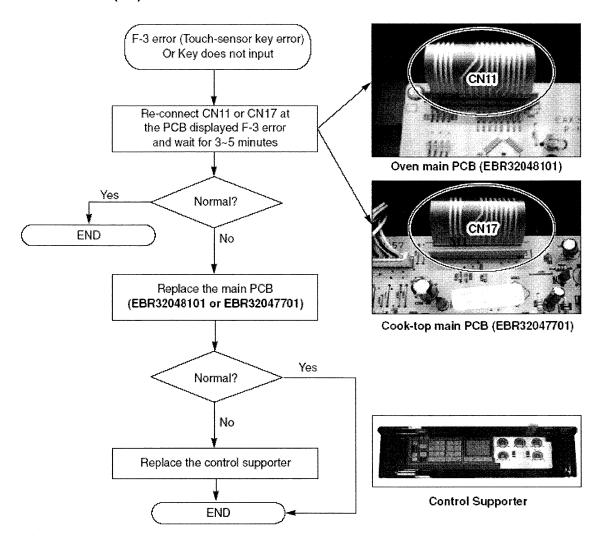
STEP 2 – Unplug the range.

STEP 3 – Check the ribbon connector for proper seating. (See page 54.)

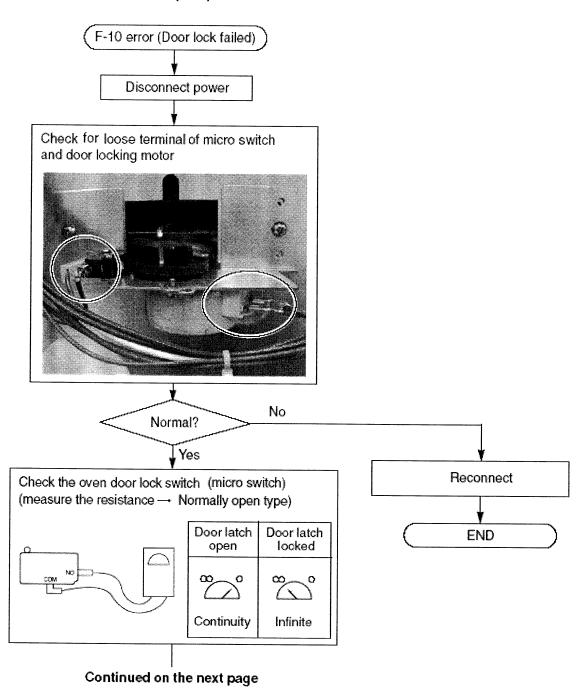
DISPLAY	CAUSE	CORRECTIVE ACTION
F1 F2	Oven sensor open Oven sensor shorted	 Remove back panel and check connections on oven sensor. Check value of sensor at room temperature. Resistance should be 1,090 Ω. Check sensor wire continuity. Replace PCB.
F3	Touch sensor key disconnected	 Replace keypad or assembly If F3 recurs, replace the control PCB.
F6	Oven too hot. Bad oven sensor or control PCB	 Remove back panel and check connections on oven sensor. Check value of sensor at room temperature. Resistance should be 1,090 Ω. Check sensor wire continuity. Replace PCB.
F10	Door lock fails	 Check wires and connections between control and latch motor. Replace latch mechanism. Replace control.
F11	Bake or broil element failure	 Remove the back panel and check continuity of sensor, bake element, broil element, and control PCB. Disconnect sensor from harness and measure the resistance (1.09 kΩ ±10% at 77° F / 25° C). Replace sensor if out of spec. Measure the resistance between all connector pins and the sensor chassis. Resistance should be ∞ (open). Replace sensor if out of spec.

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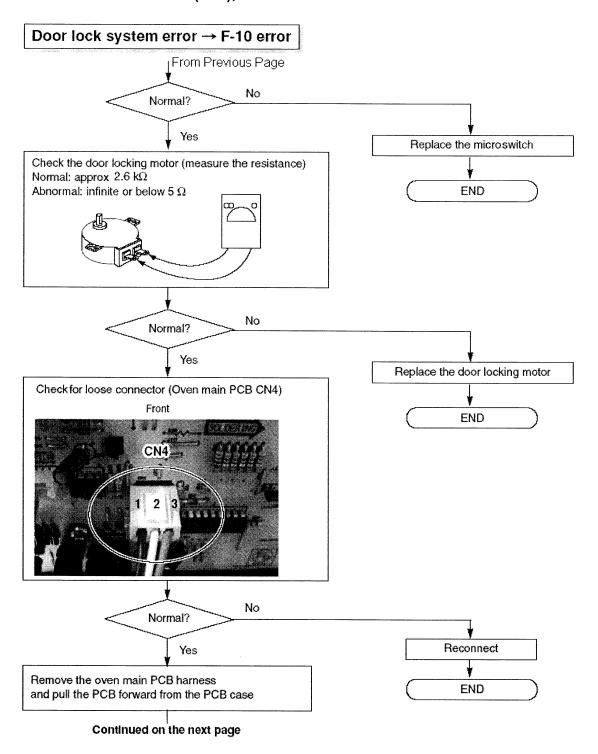
KEY ERROR (F3)



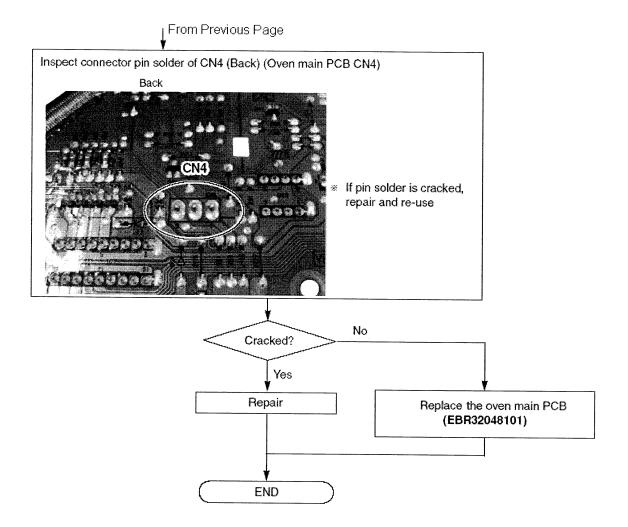
DOOR LOCK SYSTEM (F10)



DOOR LOCK SYSTEM (F10), continued

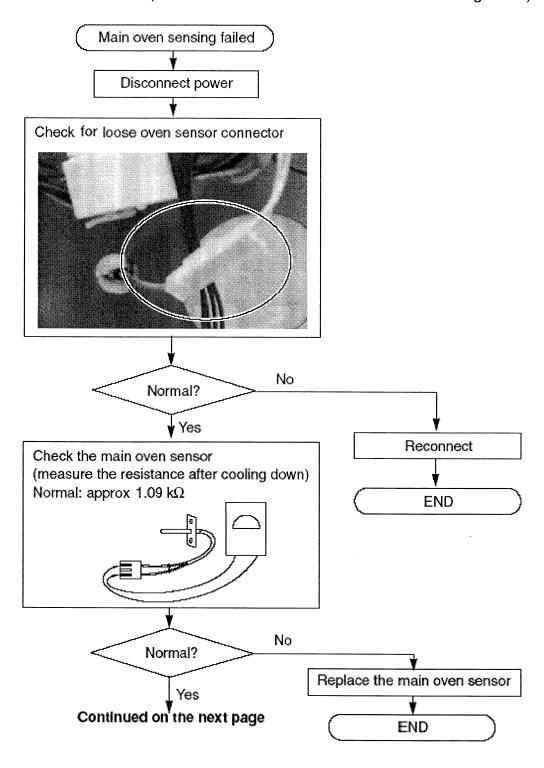


DOOR LOCK SYSTEM (F10), continued

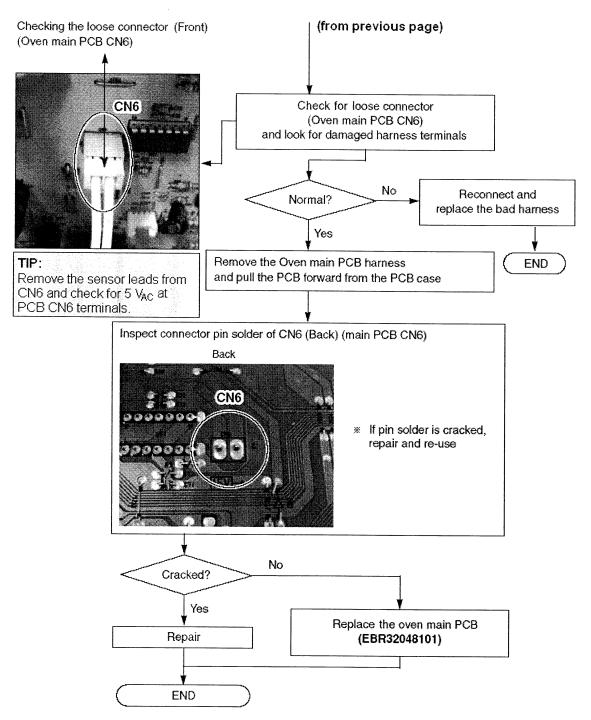


MAIN OVEN SENSING EFFOR (F1 and F2)

- **F1** Opened sensor (remains open for over 1 minute after cooking starts)
- F2 Shorted sensor (remains closed for over 1 minute after cooking starts)

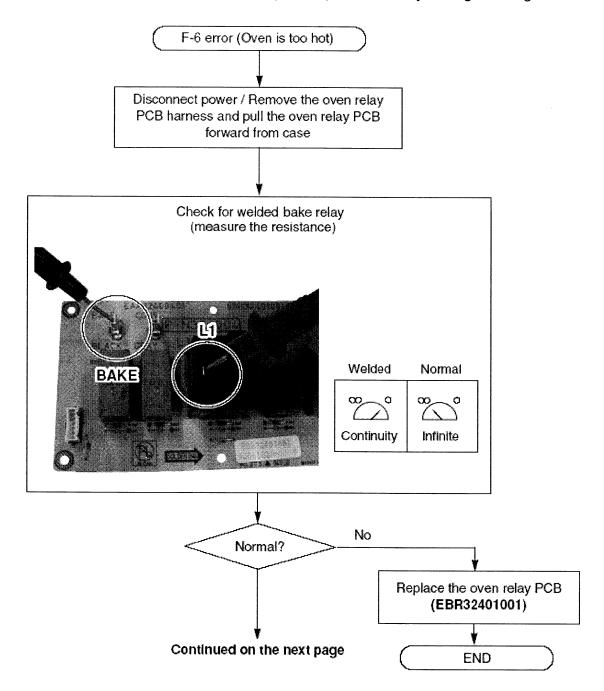


MAIN OVEN SENSING ERROR (F1 and F2), continued

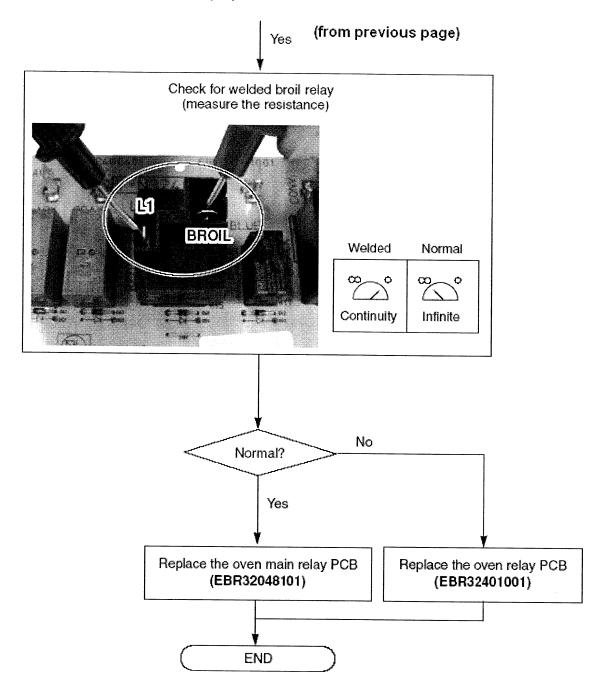


OVEN TOO HOT ERROR (F6)

F6 Oven temperature is over 650° F (343° C) continuously during cooking.



OVEN TOO HOT ERROR (F6), continued



TROUBLESHOOTING CHART

PROBLEM	POSSIBLE FAULT	RESOLUTION
Oven does not operate	Bad power control board (PCB)Power failure	 Test / replace PCB Verify power is live at range Check fuse or breaker
Oven element does not heat	 No line voltage Loose or defective wiring Defective element Bad power control board (PCB) 	Check fuse or breaker Repair or replace wiring Test / replace element Test / replace PCB
Surface element will not heat higher than low or medium	 Loose or bad connection at terminal block or element Defective surface unit control PCB Defective surface element Low line voltage 	 Check all connections and wires Test / replace cooktop PCB Test / Replace element Check line voltage
Frequent cycling of surface element (including warming zone)	This is normal	Element cycles on and off to maintain even temperature
HS (Hot Surface) warning lights do not operate	Defective cooktop PCB	Test / replace cooktop PCB
Oven light does not operate	Bulb is defectiveBreaker or fuse failedLoose or defective wiring	 Replace bulb Reset breaker or replace fuse Repair / replace wiring
	Defective light socketDefective door switch	Check socket for continuity Test / replace door
Self-clean cycle will not start	Defective wiring	switch Repair / replace wiring
June	Defective latch system	Check locking motor and micro switch
	Programming error	Shut off power to oven for 5 minutes to reboot

continued on next page

TROUBLESHOOTING CHART, continued

PROBLEM	POSSIBLE FAULT	RESOLUTION
Self-clean cycle fails to	Defective contact at	Test door switch
complete	door switch	 Check point of contact
		between door and
Range does not accept	Failed main power	switch
programming	control board	 Replace main power control board
Clock and timer fail	Power failure	Verify power is on
		 Check fuse or breaker
Over de se met hele		Reset clock
Oven does not bake	 Loose or defective wiring 	Check connections and
	Defective bake	wiring Test / replace bake
	element	element
	Defective clock	Test / replace power
	Daniel III	control board (PCB)
	Door switch sensing error	Test door switch and check contact between
	CITO	switch and door
Oven does not broil	Loose or defective	Check connections and
	wiring	wiring
	Defective broil element Defective power	Test / replace broil
	Defective power control board	elementTest / replace power
	John Stard	control board (PCB)
Overheating oven (runaway)	 Loose or defective wiring to latch system 	Repair / replace wiring
(Defective oven sensor 	Test / replace oven
		sensor
<u>-</u>	Defective oven relay	Test / replace oven
Oven door will not open	PCB • Defective lateh	relayPCB
or latch	Defective latch mechanism	Replace latch system
	Defective (bent or mis-	Replace latch lever
	aligned latch lever	,
	Oven is HOT. Wait for	This is NORMAL. Wait
	cool-down after self- clean cycle.	for LOCK icon to
Premature burnout of	Improper use of oven	extinguish. • Use oven for intended
bake element	(heating the home)	purpose
Door hard to open	Worn or broken broil	Replace door hinge
	stop roller	

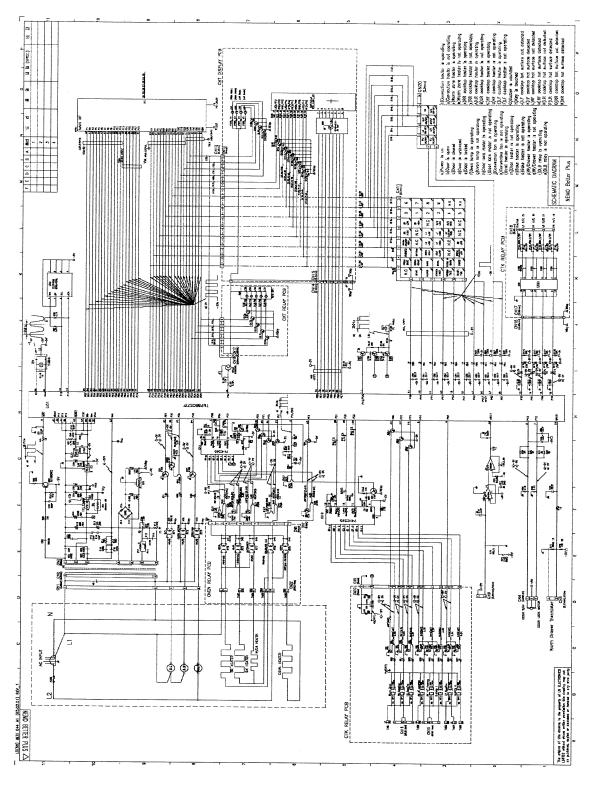
continued on next page

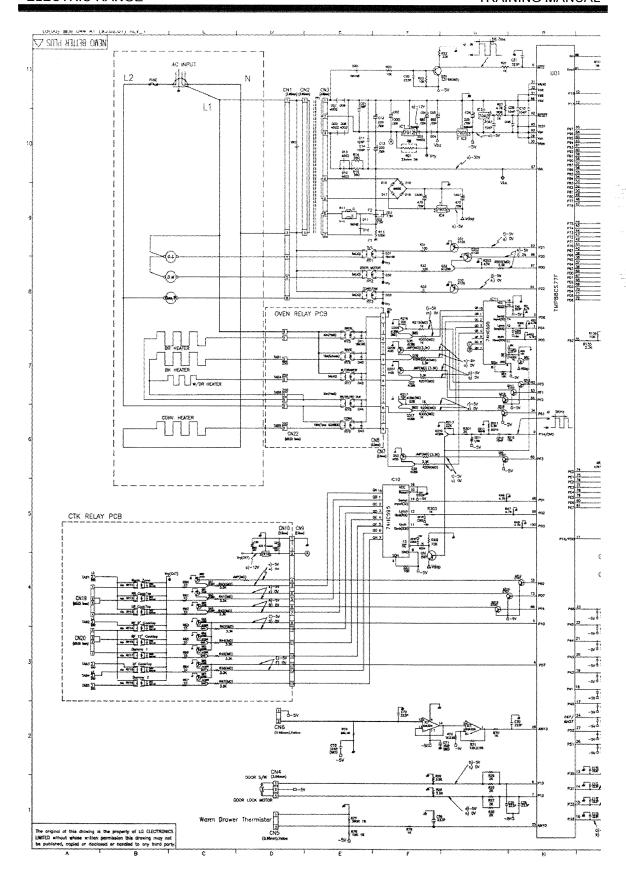
TROUBLESHOOTING CHART, continued

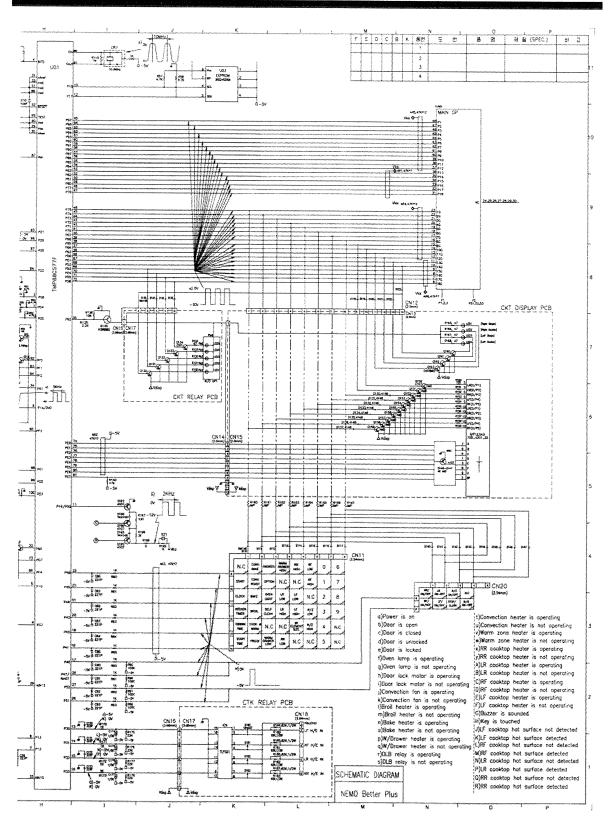
PROBLEM	POSSIBLE FAULT	RESOLUTION	
Oven door sags on one side	 Hinge loose or out of adjustment 	 Adjust or replace hinges 	
Oven door does not close completely at top	Spring broken or out of adjustmentDoor fits too tightly at bottom	Adjust or replace springsAdjust hinges outward	
Door glass breaks	Oven rack covered with foil.Glass installed backwards	 Do not cover racks with foil. Installed tempered glass on side toward heat. 	
Damaged oven door gasket	Improper self-clean	 Do not use harsh abrasives or scouring pads. 	
Oven racks fit too tightly	 Racks were cleaned in self-clean cycle Tolerance buildup in 	 Apply small amount of vegetable oil with a paper towel and wipe edges of the racks. DO NOT use PAM™ or other lubricant sprays. Notify Customer 	
Smoke / odor from oven at first few uses	oven liner This is normal.	 Slight smoke / odor is normal for the first couple of uses. Ventilate area and run self-clean cycle 	
Convection fan makes noise	 Convection fan may turn ON or OFF automatically. Loose nut on fan blade Bent fan blade or shaft 	 Low noise level is normal. Tighten nut. Replace convection fan blade or motor assembly. 	
Failure code (F-CODES) Oven temperature too hot or cold	Controlled by PCBOven sensor out of adjustment	 See page 53. Adjust sensor from control panel. See page 14. 	

PCB SCHEMATIC

This diagram is enlarged on the next two pages for the servicer's convenience.







SCHEMATIC

A WARNING

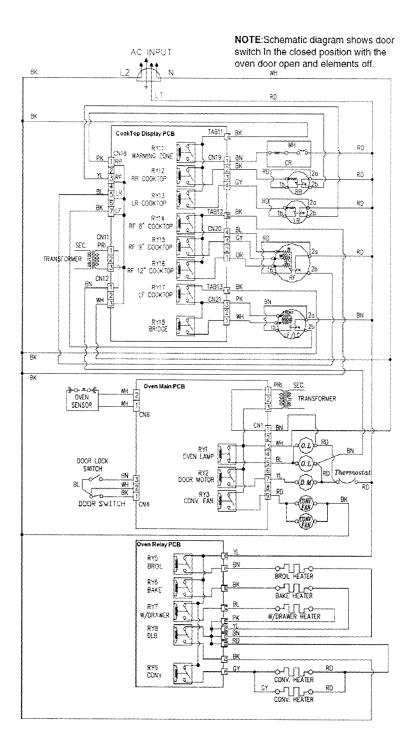
- DISCONNECT power supply cord from the outlet before servicing.
- Replace all panels and parts before operating.
- RECONNECT all grounding devices.
- Failure to do so can result in severe personal injury, death or electrical shock.

*RADIANT COOK-TOP

Ω
approx.47Ω
approx.31Ω
approx.31Ω
approx.70Ω
approx.55Ω
approx.55Ω
approx.55Ω
approx.570Ω

WIRE COLORS

WILL GOLDERO		
SYMBOL	COLOR	
WH	WHITE	
BK	BLACK	
RD	RED	
YL	YELLOW	
PK	PINK	
BL	BLUE	
BN	BROWN	
GN	GREEN	
GY	GRAY	
OR	ORANGE	

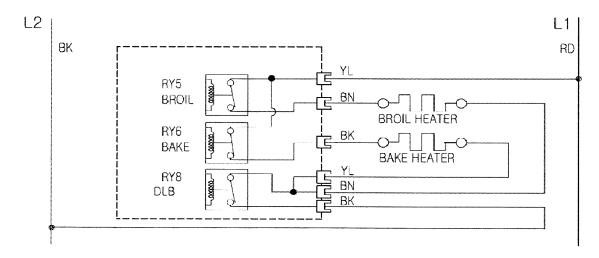


STRIP CIRCUITS

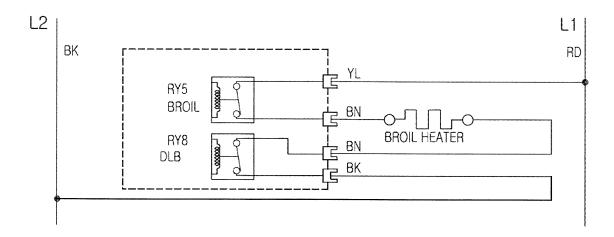
- Before checking the oven circuitry, be sure to check the line voltage and the fuse or circuit breaker.
- Check for loose or incorrect wiring inside the range.

The following strip circuit diagrams are to aid the servicer in diagnosis and repair. The diagrams are shown in the **ON** position.

BAKE / COOK & WARM / PROOF

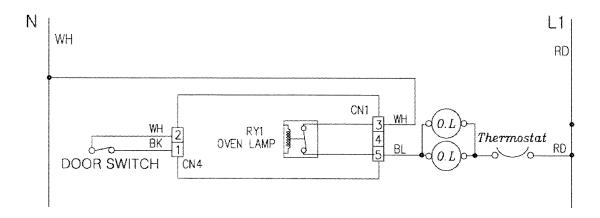


BROIL

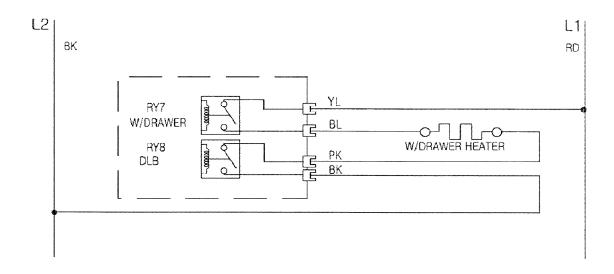


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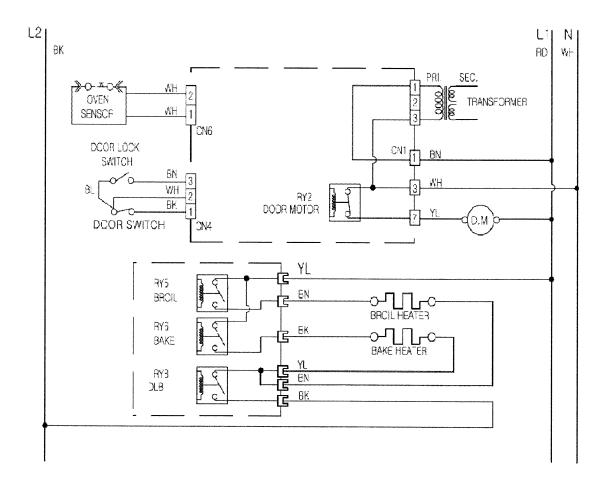
OVEN LIGHT



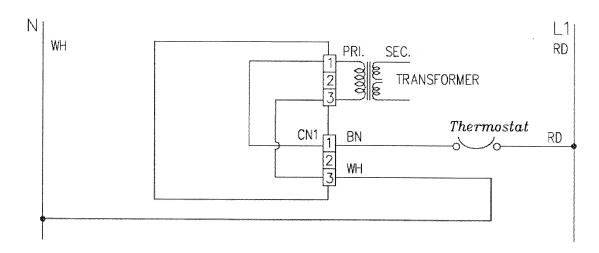
WARMING DRAWER



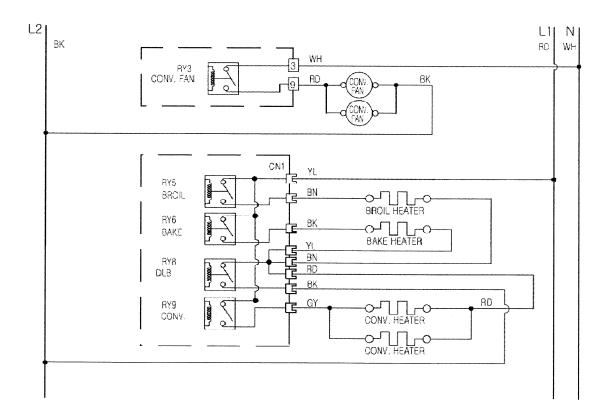
SELF-CLEANING CYCLE



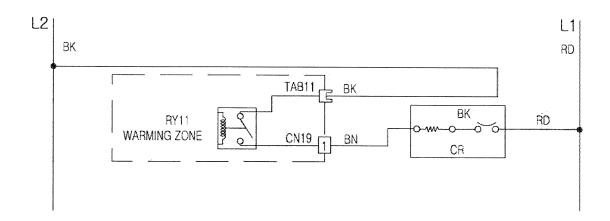
CLOCK DISPLAY ON



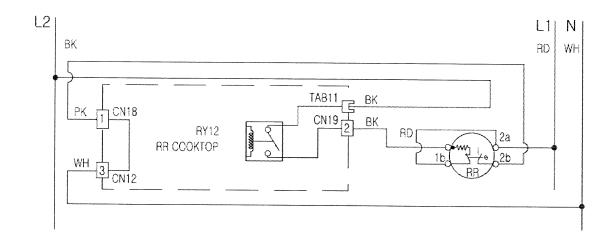
CONVECTION BAKE / CONVECTION ROAST



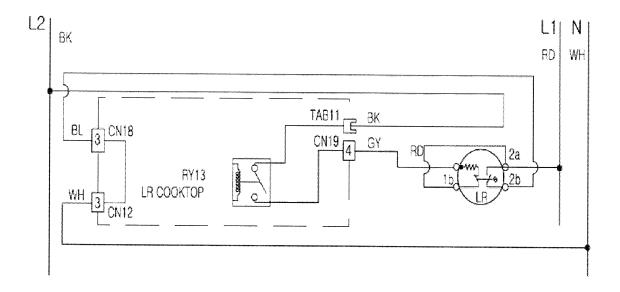
CR (CENTER REAR) ELEMENT (WARMING ZONE)



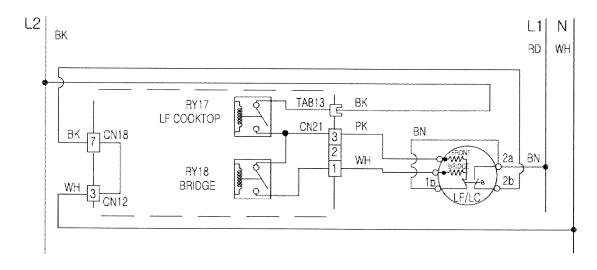
RR (RIGHT REAR) ELEMENT



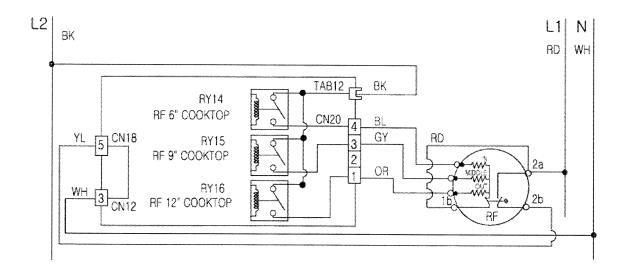
LR (LEFT REAR) ELEMENT



LF (LEFT FRONT AND BRIDGE) ELEMENT



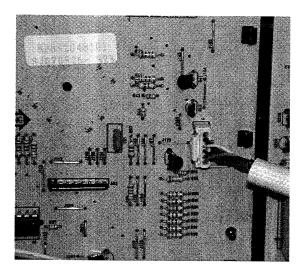
RF (RIGHT FRONT) ELEMENT

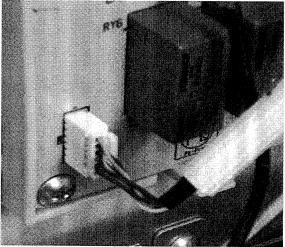


LOW VOLTAGE CONNECTORS FOR HEATER RELAYS

Relays are Controlled by 12 V_{DC} Ref. to Pin 1 (Orange Wire)

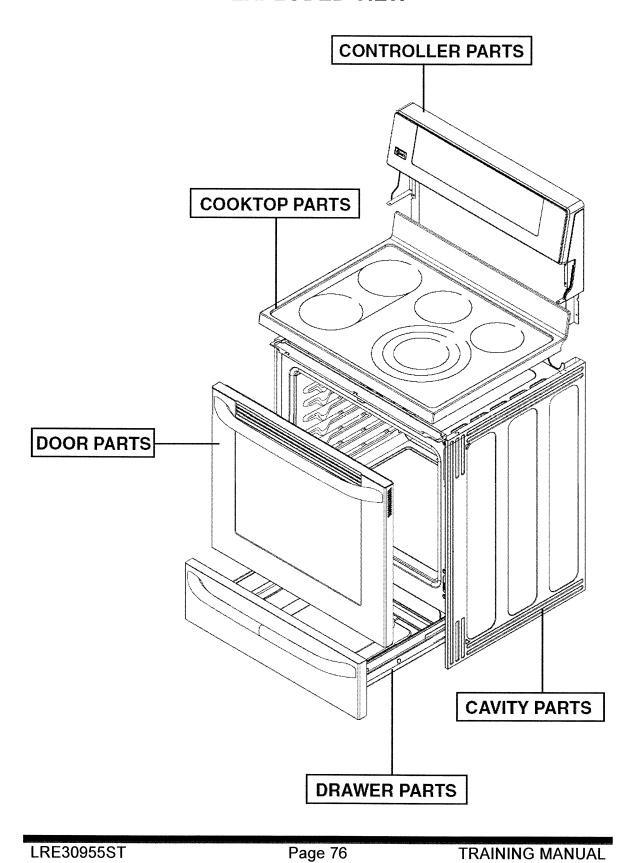
Pin No	Wire Color	Relay	Relay No		V_{DC}
1 2 3 4 5 6	ORANGE GREEN BROWN WHITE BLUE RED	V _{DC} Ref Line Broil Bake Warming Dr Convection Double Line	awer	5 6 7 9	-12 -12 -12 -12 -12

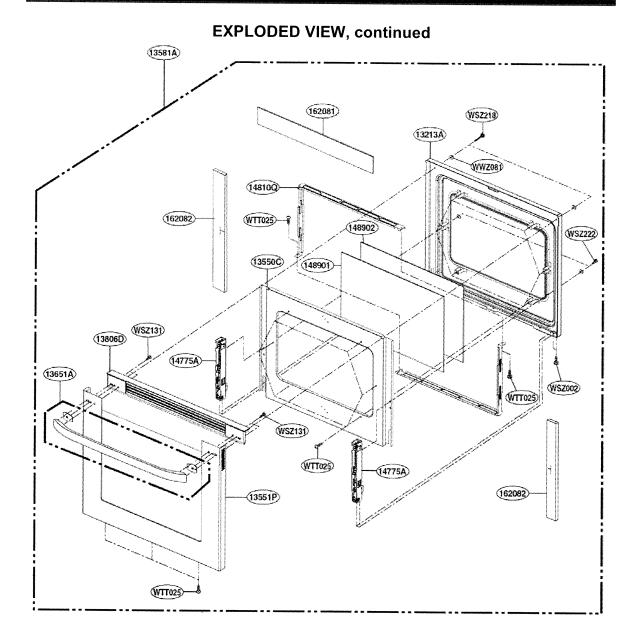




- Ref Line (Reference Line) is the (+) positive potential of 12 V_{DC} . Main PCB Board switches the (-) negative potential of the 12 V_{DC} to each relay coil. With BK meter lead on Pin 1 Ref line and RD meter lead on Pins 2 thru 6, your meter will show 12 V_{DC} .
- DLB will have -12V_{DC} along with BAKE, BROIL, WM DRWR, or CONVECTION Relay. Measure from Pin 1 (Orange) to any relay coil being tested.

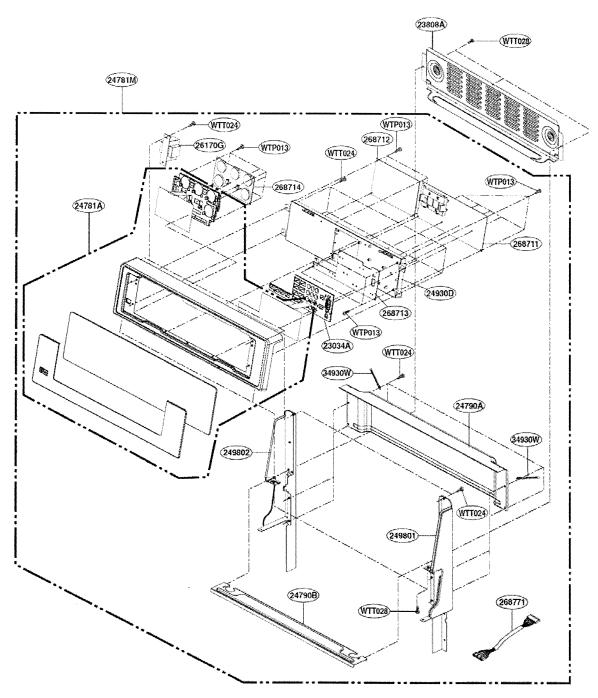
EXPLODED VIEW





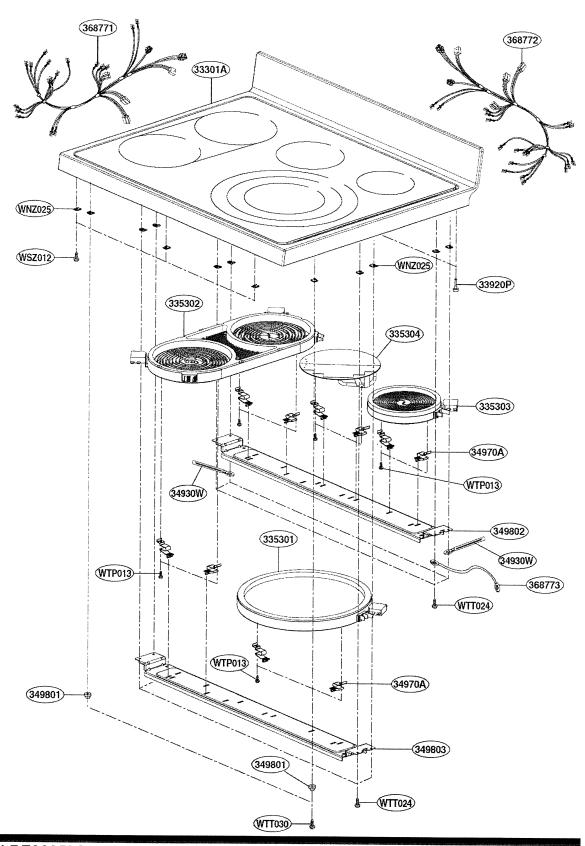
ELECTRIC RANGE TRAINING MANUAL

EXPLODED VIEW, continued



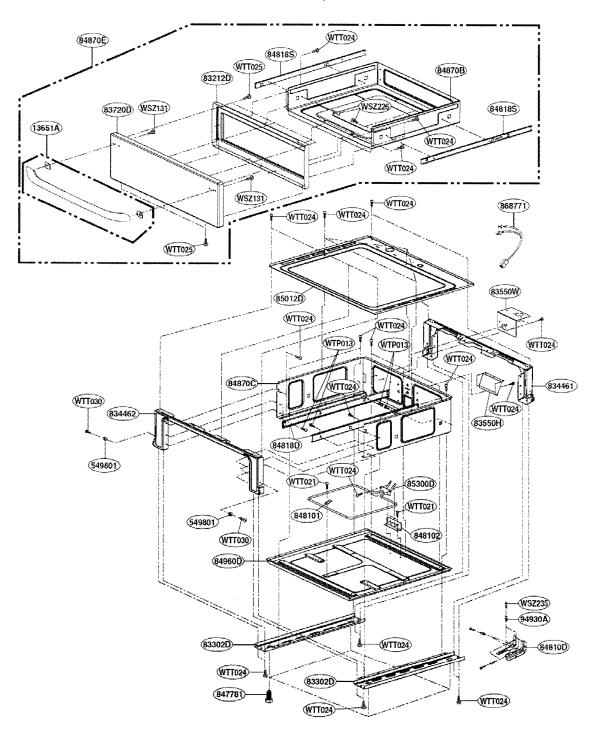
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EXPLODED VIEW, continued



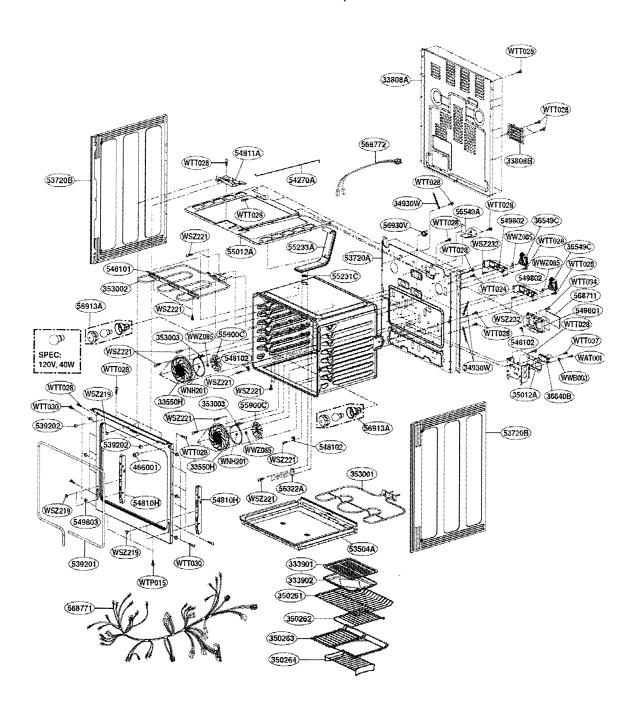
ELECTRIC RANGE TRAINING MANUAL

EXPLODED VIEW, continued



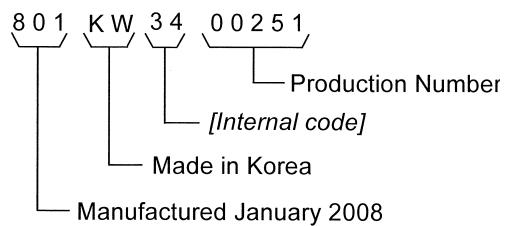
ELECTRIC RANGE TRAINING MANUAL

EXPLODED VIEW, continued



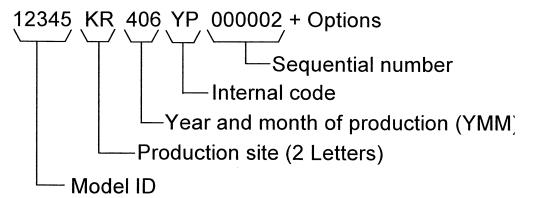
SERIAL NUMBERS

[Example] 801KW3400251

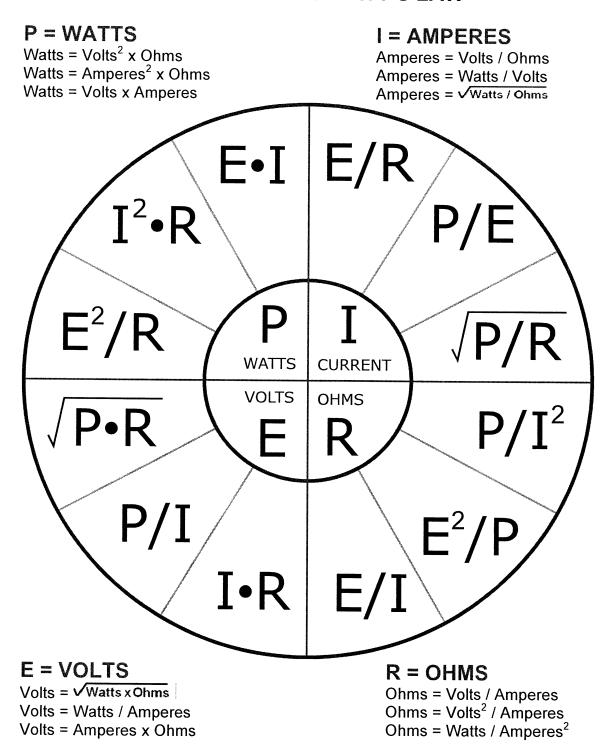




New Serial Code (ETA Mid 2008)



OHM'S LAW and WATT'S LAW



SERVICE BULLETINS

TERMINAL BLOCK SCREW CHANGE

Improvement of range's terminal block screws
Improveme
Service Bulletin No. 0ETO20070016

Symptom

Installing or uninstalling the power cord to Range terminal block causes Phillips head screw opening

to wear-out or strip.

8/01/2007

Root Cause

Less strength of the Terminal block screw allows the Philips head to strip or "wear-out."

Corrective Action

Increase the strength through heat treatment of terminal block screws.

Before

Tempered Screw

Phillips Head strips-out

Heat treatment improved the strength Surface Solidity: 450HV~750HV Screw P.NO: FAB30162501

New screws have a pink tone compared to the previous screws.

Application

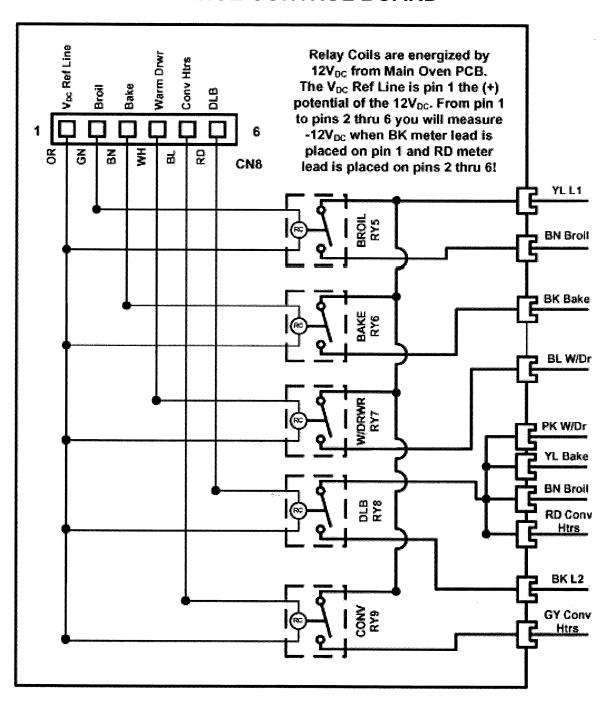
11/20/2007~

LEG AND ANTI-TIP BRACKET CHANGE

8/01/2007 If replacing either the anit-tim bracket or the leg that slides under it, you must replace the corresponding part, that is, they are a matched set. It is not necessary to replace the other mm£ 91 In this case the range's height is 914, 4mm(normal counter top's height) but some countertop's height is Part No. MAZ34877101 Anti Tip To install the Anti-Tip Bracket, a Legs(Foot) should be unscrewed about 16.5mm Change the shape of Leg & Anti-Tip Bracket to install without unscrewing a Legs. (To cover a under 914,4mm height countertop) lower than 914,4mm. So the range is unbalance with countertop. three legs on the range when doing this. Lower height countertop (under 914.4mm height) Improvement of range's leveling with countertop Part No. 4778W1N001A mmč.Si шшд from base plate to bottom. Leg 07/23/2007~ Corrective Action Root Cause Application. Symptom Before

Service Bulletin 0ETO20070015

RANGE CONTROL BOARD



PARTS LIST

Loc#	Part No	Description
*01	MFL37118201	Manual, Owners
*02	MFL37118301	Manual, Service
*04	MFL37118101	Manual, Installation
*06	MBM37524801	Card, Template
*07	MBM37135201	Card, Technical
*10	3890W2Y324C	Box
13213A	3213W0N001C	Frame Assembly, Door
13550C	3550W0N006A	Cover, Inner
13551P	ACQ32285301	Cover Assembly, Poise
13581A	ADC32280301	Door Assembly
13651A	AED30638101	Handle Assembly
13806D	MCR32112502	Decor, Door
14775A	4775W1N001C	Hinge Assembly
14810Q	4810W0N001A	Bracket, Mount
148901	4890W1N005A	Window, Glass
148902	4890W1N005B	Window, Glass
162081	5290W1N003D	Insulator
162082	5290W1N003E	Insulator
23034A	MGW34737101	Reflector
23808A	MCK35970301	Cover, Rear
24781A	ACM32655301	Controller Assembly, Sub
24781M	ACM32284401	Controller Assembly, Keypad
24790A	4790W0N002A	Barrier
24790B	MAL32136801	Barrier
24930D	MEG33702801	Holder, Display
249801	MJH32134503	Supporter
249802	MJH32135303	Supporter
26170G	6170W1G037A	Transformer, power
268711	EBR32048101	PCB Assembly, Main
268712	EBR32047701	PCB Assembly, Main
268713	EBR32048201	PCB Assembly, Display
268714	EBR32048001	PCB Assembly, Display
268771	EAD34822902	Harness, Single
33301A	AGU32280501	Plate Assembly
333901	3390W0N002B	Tray, Metal
333902	3390W0N001C	Tray, Metal

Loc#	Part No	Description
335301	MEE35326801	Heater, Radiant
335302	MEE33069801	Heater, Radiant
335303	5300W1R004A	Heater, Radiant
335304	MEE32583302	Heater, Radiant
33550H	MCK32134202	Cover, Heater
33808A	MCK36350001	Cover, Rear
33808B	MCK36350002	Cover, Rear
33920P	3920W1N014A	Packing, Idle
34930W	4B72510F	Holder, Wire
34970A	4970W1N004A	Spring
349801	4980W1N014A	Supporter
349802	4980W0N002B	Supporter
349803	4980W0N002C	Supporter
35012A	5012W1N016A	Insulator
350261	MHL39274501	Shelf
350262	5026W1N001A	Shelf
350263	MHL39274601	Shelf
350264	5026W1N002A	Shelf
353001	5300W1S026A	Heater, Sheath
353002	5300W1S025A	Heater, Sheath
353003	MEE32902201	Heater, Sheath
36549C	EAU36206001	Motor, AC Fan
36640B	EAG32629301	Connector, Terminal Block
368771	EAD35931101	Harness, Single
368772	EAD35930901	Harness, Single
368773	6877W1N024C	Harness, Single
466001	6600R000082	Switch, Tact
53504A	3504W0N001A	Chamber
53720A	3720W0E011A	Panel
53720B	3720W0E012C	Panel
539201	3920W0N001A	Packing, Gasket
539202	3920W1N013A	Packing, Gasket
54270A	4270W1N001A	Bar
548101	4810W1N020A	Bracket, Heater
548102	4810W1N022A	Bracket, Heater
54810H	4810W1N040A	Bracket, Hinge
54811A	4811W0N002A	Bracket Assembly
549801	4980W1N026B	Supporter

Loc#	Part No	Description
549802	4980W1 N 009A	Supporter
549803	4980W1N013A	Supporter
55012A	5012W0N002A	Insulator
55231C	5230W1N001B	Filter, Charcoal
55233A	AJV31005901	Vent Assembly
55900C	MDG35948701	Fan
56322A	6322B62214A	Thermistor, PTC
56549A	6549W1S025A	Motor Assembly, AC, Sync
568711	EBR32401001	PCB Assembly, Main
568771	EAD35930401	Harness, Single
568772	6877W1 N 025B	Harness, Single
56913A	6913W1 N 002A	Lamp, Incandescent
56930V	6930W1A003X	Thermostat
83212D	3212W0N001A	Frame, Door
83302D	3302W1 N 001A	Plate, Base
834461	3446W0N001A	Plate, Front
834462	3446W0N001B	Plate, Front
83550H	3550W1N011A	Cover, Heater
83550W	3550W1N004A	Cover, Power Cord
83720D	MGC32115501	Panel
847781	4778W1 N 001A	Foot
848101	4810W1N018A	Bracket, Heater
848102	4810W1N023A	Bracket, Heater
84818D	4818W1 N 001A	Slider
84818S	4818W1N002A	Slider
84870B	4870W0N002E	Drawer
84870C	4870W0N001A	Drawer
84870E	383EW0 N 001H	Parts Assembly
84960D	4960W0N001A	Plate
85012D	5012W0N001A	Insulator
85300D	5300W1S027A	Heater, Sheath
868771	6877W1N024B	Harness, Single
94930A	383EW5N009A	Parts Assembly
WAT001	1ATF0502610	Screw, Taptite
WNH201	1NHB0500032	Nut, Common
WNZ025	1NZZED4002A	Nut, Common
WSZ002	1SBF0402418	Screw, Taptite, Binding Head
WSZ012	1SZZW3Z001A	Screw, Customized

Loc#	Part No	Description
WSZ131	4B72393B	Screw
WSZ218	1SZZW5N001B	Screw, Customized
WSZ219	1SZZW5N001A	Screw, Customized
WSZ221	1SZZW1N006A	Screw, Customized
WSZ222	1SZZW5N001C	Screw, Customized
WSZ226	1SZZW5N001E	Screw, Customized
WSZ232	4000W4A001E	Screw, Customized
WSZ235	1SZZW1N003A	Screw, Customized
WTP013	1TPL0402418	Screw, Tapping
WTP015	1TPL0402618	Screw, Tapping
WTT021	1TTL0402418	Screw, Tapping
WTT024	1TTL0402618	Screw, Tapping
WTT025	1TTL0402622	Screw, Tapping
WTT028	1TTL0402818	Screw, Tapping
WTT030	1TTL0403118	Screw, Tapping
WTT034	1TTL0403418	Screw, Tapping
WTT037	1TTL0403818	Screw, Tapping, Truss Head
WWB003	4H00056C	Washer, Common
WWZ081	1WZZW3Z003B	Washer, Customized
WWZ085	1WZZ81N001A	Washer, Customized

