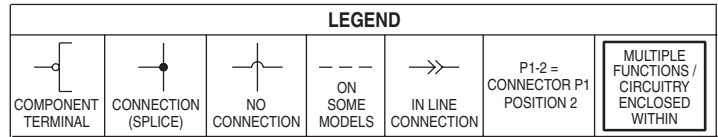


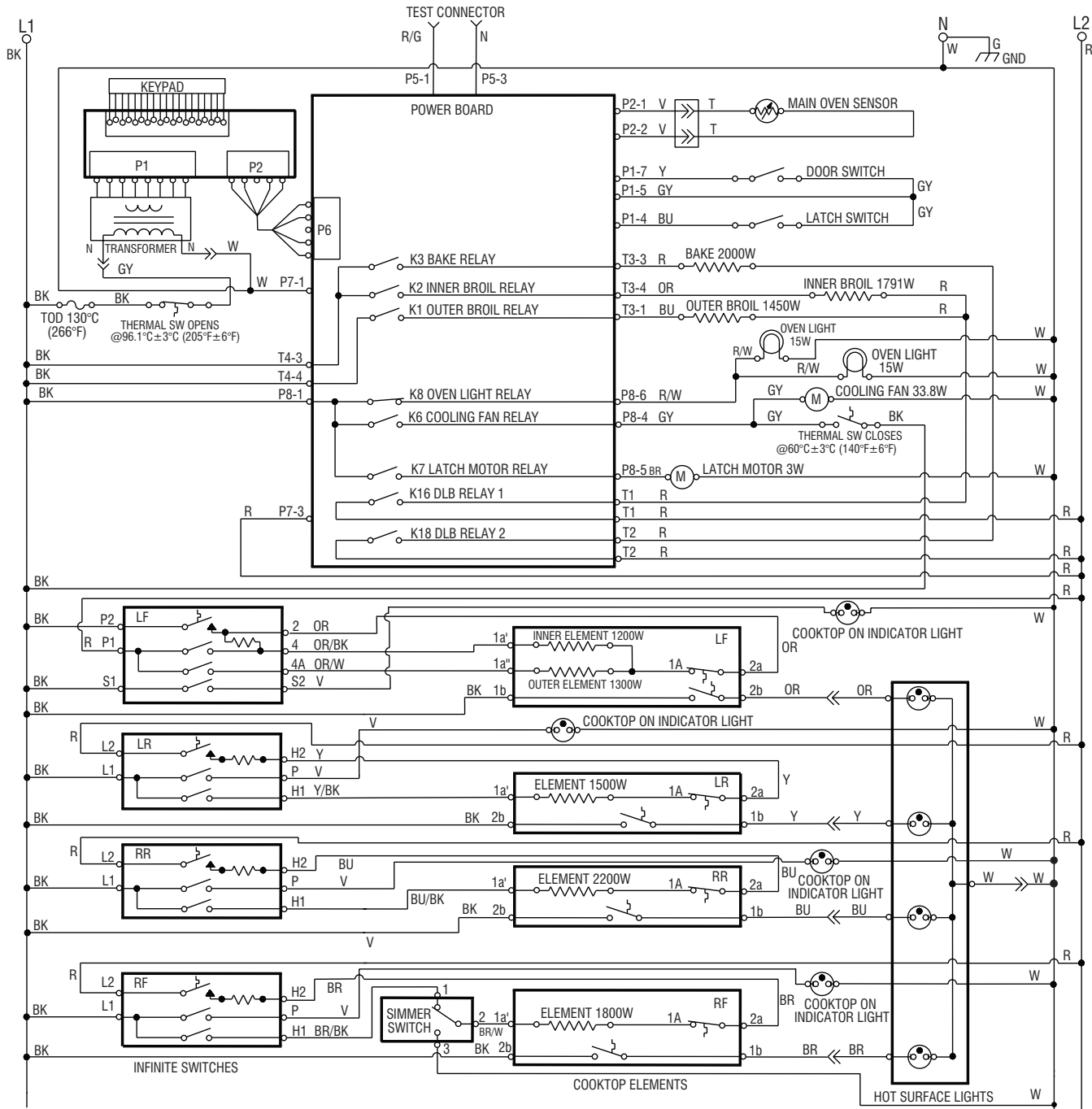
# ⚠ WARNING



**Electrical Shock Hazard**  
 Disconnect power before servicing.  
 Replace all parts and panels before operating.  
 Failure to do so can result in death or electrical shock.



**NOTE:** Schematic shows door latch switch in the COOK position with oven door open and elements off.



SOFTWARE COPYRIGHTED. THIS PRODUCT IS COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS: U.S. PATENT NOS.

4,852,544	5,175,413	5,422,460	5,571,434	5,808,278	5,910,265	5,983,888	6,087,944	6,263,782	6,403,929	6,663,009	6,722,356	6,904,969
4,974,804	5,185,047	5,424,512	5,620,623	5,810,576	5,918,589	6,008,478	6,097,000	6,349,717	6,437,294	6,666,676	6,734,403	6,935,330
5,008,516	5,321,229	5,438,180	5,694,916	5,813,320	5,924,857	6,017,211	6,111,231	6,363,971	6,509,551	6,693,262	6,784,404	
5,064,998	5,349,162	5,441,036	5,749,388	5,841,112	5,928,543	6,035,848	6,163,017	6,375,150	6,545,251	6,698,417	6,841,761	
5,138,137	5,378,874	5,491,314	5,756,970	5,856,654	5,961,311	6,043,461	6,201,222	6,392,204	6,570,136	6,698,923	6,870,138	
5,142,125	5,382,552	5,571,433	5,767,488	5,881,710	5,967,634	6,079,756	6,232,584	6,394,081	6,614,006	6,700,101		

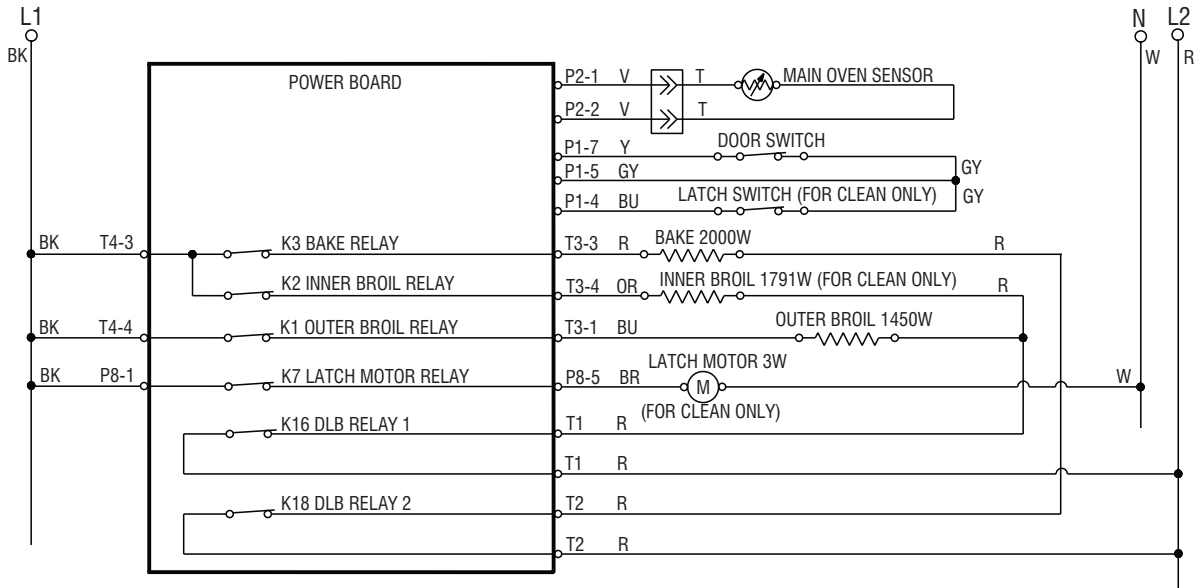
AND OTHER PATENTS PENDING.

**STRIP CIRCUITS**

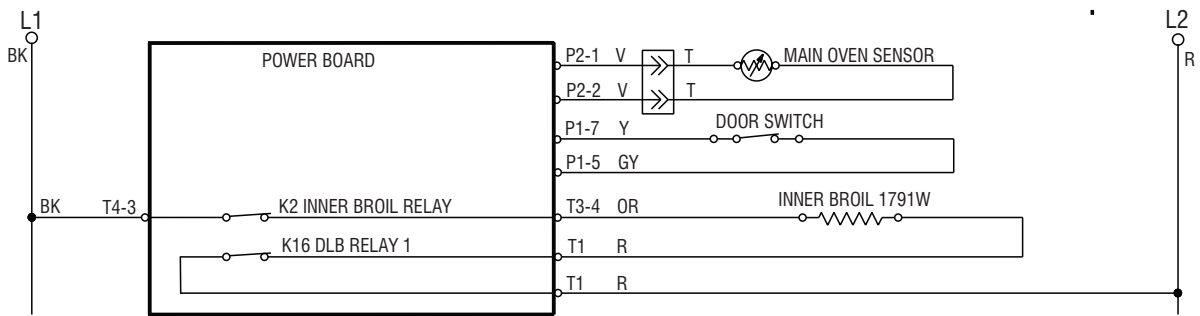
The following individual circuits are for use in diagnoses, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 +10%/ -15% VAC power supply at the wall outlet.

**BAKE,  
PREHEAT,  
CLEAN**

*Bake and inner and outer broil relays cycle.*

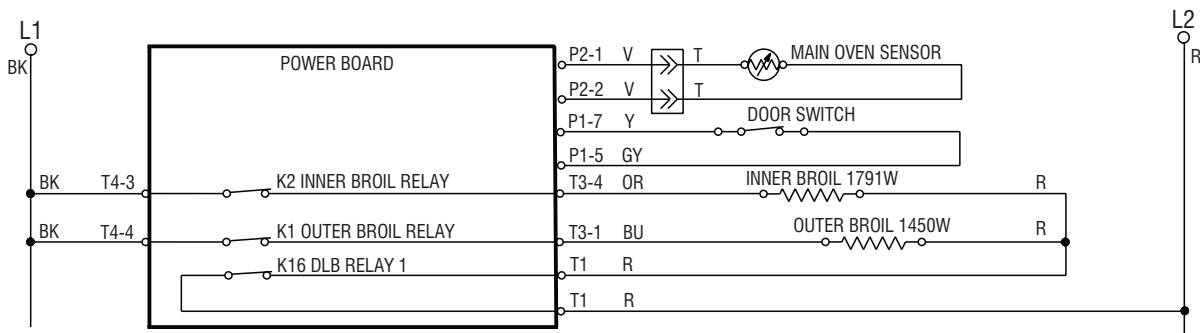


**CENTER BROIL**



**FULL BROIL**

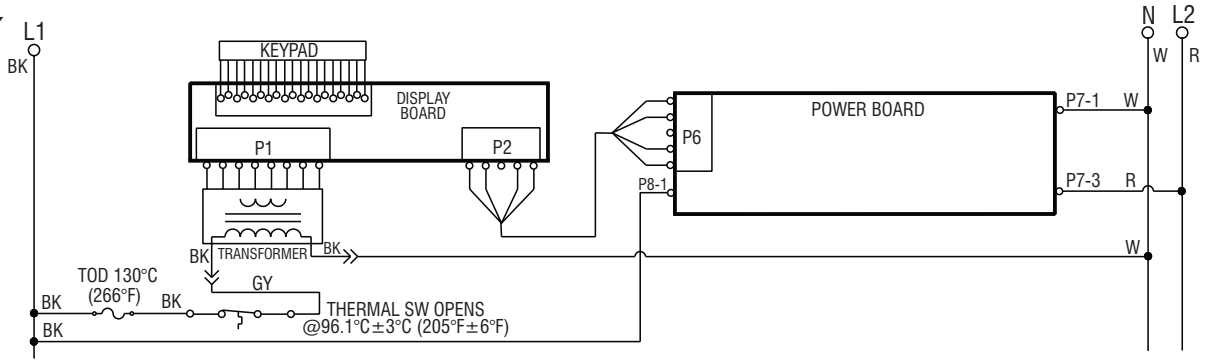
*Inner and outer broil relays cycle.*



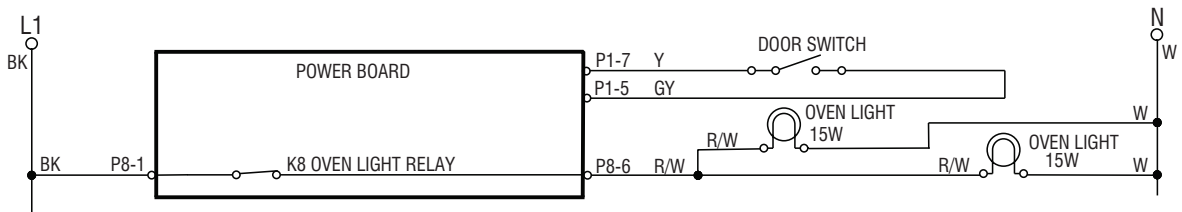
**STRIP CIRCUITS**

The following individual circuits are for use in diagnoses, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 +10%/-15% VAC power supply at the wall outlet.

**CONTROL POWER/ CLOCK**

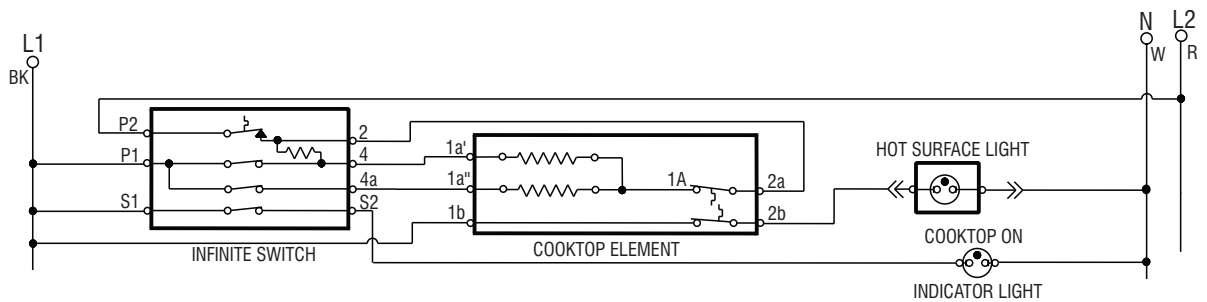


**OVEN LIGHTS**



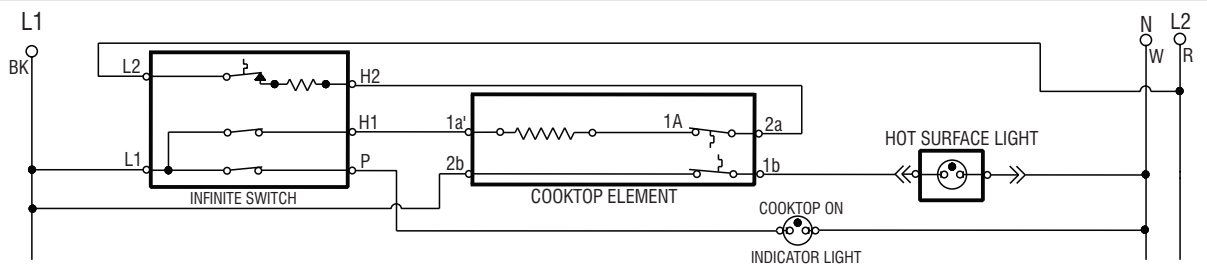
**SURFACE ELEMENT (DUAL)**

Typical



**SURFACE ELEMENT (SINGLE)**

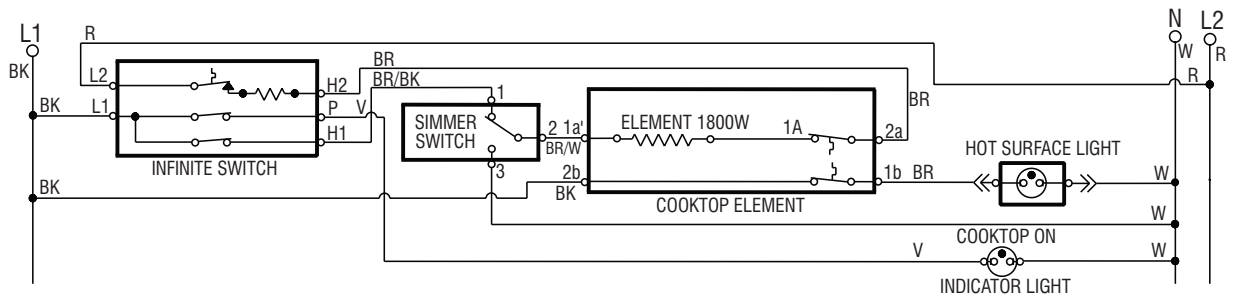
Typical



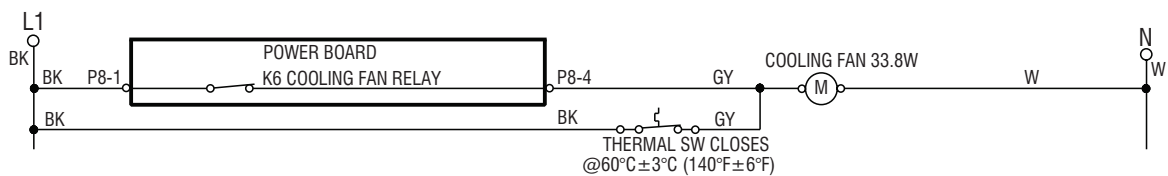
### STRIP CIRCUITS

The following individual circuits are for use in diagnoses, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 +10%/ -15% VAC power supply at the wall outlet.

#### SURFACE ELEMENT (ACCUSIMMER)



#### COOLING FAN



### FAILURE/ERROR DISPLAY CODES

Before proceeding with any corrective action, perform the following steps to enter the Diagnostics mode.

- To recall last failure code, if not displayed, press the Off key to place the range in an idle state.

- Press the Off and Start keys in the following order: OFF, OFF, START.
- Verify the error code displayed on the control by observing for longer than 1 minute. If the error returns, use the applicable procedure listed below for the actual error code that is displayed.

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION SUGGESTED CORRECTIVE ACTION PROCEDURE
F0 Default	E0	No failure
F1 Internal	E0	INTERNAL ERROR
	E1	INTERNAL ERROR
	E2	INTERNAL ERROR
	E3	INTERNAL ERROR
	E4	INTERNAL ERROR
	E9	INTERNAL ERROR
<b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart to enter the Diagnostics mode. A. Unplug range or disconnect power. B. Replace the display board. C. Replace all parts and panels before operating. D. Plug in range or reconnect power. E. Verify operation is normal. Go to step 1 and complete checks.		
F1 Internal	E5	INTERNAL ERROR
	E6	INTERNAL ERROR
	E7	INTERNAL ERROR
	E8	INTERNAL ERROR
<b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart to enter the Diagnostics mode. A. Unplug range or disconnect power. B. Replace the power board. C. Replace all parts and panels before operating. D. Plug in range or reconnect power. E. Verify operation is normal. Go to step 1 and complete checks.		

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION SUGGESTED CORRECTIVE ACTION PROCEDURE
F2 Keypad	E0 E1	STUCK KEY (shorted key) KEYPAD DISCONNECT or KEYPAD DISCONNECTED
<b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart to enter the Diagnostics mode. A. Unplug range or disconnect power. B. Check that the keypad is firmly connected. C. Replace all parts and panels before operating. D. Plug in range or reconnect power. E. Observe for longer than 1 minute. F. If error remains then go to step G. G. Unplug range or disconnect power. H. Replace keypad. I. Replace all parts and panels before operating. J. Plug in range or reconnect power and observe for longer than 1 minute. K. If error remains then go to step L. L. Unplug range or disconnect power. M. Replace display board. N. Replace all parts and panels before operating. O. Plug in range or reconnect power. P. Verify operation is normal. Go to step 1 and complete checks.		

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION  SUGGESTED CORRECTIVE ACTION PROCEDURE								
<b>F3 Sensors</b>	<b>E0</b>	MAIN SENSOR OPEN (top oven sensor opened)								
	<b>E1</b>	MAIN SENSOR SHORT or MAIN SENSOR SHORTED (top oven sensor shorted)								
	<b>E2</b>	MEAT PROBE SHORTED								
	<b>E4</b>	BOTTOM SENSOR OPEN (bottom oven sensor open)								
	<b>E5</b>	LOWER SENSOR SHORT or BOTTOM SENSOR SHORT (bottom oven sensor shorted)								
	<b>E6</b>	WD SENSOR OPEN (warming drawer sensor open)								
	<b>E7</b>	WD SENSOR SHORTED (warming drawer sensor shorted)								
<p><b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart to enter the Diagnostics mode.</p> <p><b>A.</b> Unplug range or disconnect power.</p> <p><b>B.</b> Open the back panels and make sure the indicated temperature sensor is plugged in. If it is not, plug it in to the connector and go to step I. If it is plugged in, go to step C.</p> <p><b>C.</b> Check connector P2 on the power board. Make sure it is plugged in and fully seated. If it is not, make the proper connection and go to step I. If it is already properly connected, go to step D.</p> <p><b>D.</b> Visually inspect the wires between P2 on the power board and the indicated temperature sensor. Make sure the wires are not cut or pinched. If the wires appear to be intact, unplug the P2 connector on the power board. Go to step E.</p> <p><b>E.</b> Measure indicated temperature sensor resistance value (measure between appropriate P2 connector pins). For the following sensors, the resistance value should read:</p> <table border="0"> <tr> <td>Main Oven Sensor</td> <td>Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)</td> </tr> <tr> <td>Lower Oven Sensor</td> <td>Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)</td> </tr> <tr> <td>Warm Drawer Sensor</td> <td>Between 1,500 and 319,000 Ω. (Approx. 119,420 Ω at room temp.)</td> </tr> <tr> <td>Meat Probe Sensor</td> <td>Between 1,300 and 103,000 Ω. (Approx. 59,000 Ω at room temp.) (Insert meat probe into meat probe jack located inside the oven cavity prior to reading resistance.)</td> </tr> </table> <p>Measure any P2 connector pin to chassis. Resistance value should read "open". If it does not, replace sensor harness. Repeat step E. If the indicated temperature sensor does not meet these requirements, go to step F. If the temperature sensor does meet the requirements, go to step I.</p> <p><b>F.</b> For MAIN, LOWER and WARM DRAWER sensors: Replace appropriate temperature sensor. Repeat step E. If the requirements are not met, replace sensor harness. Repeat step E. If the requirements are still not met, go to step G.</p> <p>For MEAT PROBE sensor: Replace meat probe sensor. Repeat step E. If the requirements are not met, replace sensor harness. Repeat step E. If the requirements are still not met, replace the meat probe jack. Repeat step E. If the meat probe sensor is still not meeting the requirements, go to step G.</p> <p><b>G.</b> Replace the power board. Ensure all connectors are properly seated.</p> <p><b>H.</b> Ensure all wiring connections are made.</p> <p><b>I.</b> Replace all parts and panels before operating.</p> <p><b>J.</b> Plug in range or reconnect power.</p> <p><b>K.</b> Observe for longer than 1 minute.</p> <p><b>L.</b> Initiate a bake cycle. Let the cycle run at least 1 minute. If no error returns, cancel the cycle. The problem has been repaired. If the error occurs again, restart the troubleshooting procedure at step A.</p>			Main Oven Sensor	Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)	Lower Oven Sensor	Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)	Warm Drawer Sensor	Between 1,500 and 319,000 Ω. (Approx. 119,420 Ω at room temp.)	Meat Probe Sensor	Between 1,300 and 103,000 Ω. (Approx. 59,000 Ω at room temp.) (Insert meat probe into meat probe jack located inside the oven cavity prior to reading resistance.)
Main Oven Sensor	Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)									
Lower Oven Sensor	Between 931 and 2869 Ω. (Approx. 1080 Ω at room temp.)									
Warm Drawer Sensor	Between 1,500 and 319,000 Ω. (Approx. 119,420 Ω at room temp.)									
Meat Probe Sensor	Between 1,300 and 103,000 Ω. (Approx. 59,000 Ω at room temp.) (Insert meat probe into meat probe jack located inside the oven cavity prior to reading resistance.)									

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION  SUGGESTED CORRECTIVE ACTION PROCEDURE
<b>F4</b>	<b>E2</b>	OVER TEMP COOK
	<b>E3</b>	OVER TEMP CLEAN
	<b>E7</b>	OVER TEMP CAVITY 2 (temperature runaway error)
<p><b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart on page 4 to enter the Diagnostics mode.</p> <p><b>A.</b> Press the BAKE key to cycle the bake relay on and off. If the bake relay does not turn on and off, go to step F. If the element or gas valve does not cycle with the relay, go to step D. If the element or gas valve did cycle on and off, go to step B.</p> <p><b>B.</b> Press the BROIL key to cycle the broil relay on and off. If the broil relay does not turn on and off, go to step F. If the element or gas valve does not cycle with the relay, go to step D. If the element or gas valve did cycle on and off, go to step C.</p> <p><b>C.</b> Press the CONVECT BAKE key to cycle the convect bake relay on and off. If the convect bake relay does not turn on and off, go to step F. If the element does not cycle with the relay, go to step D. If the element did cycle on and off, go to step D.</p> <p><b>D.</b> Unplug range or disconnect power.</p> <p><b>E.</b> Check integrity of all harness wires and connections between the power board and the electric elements. Ensure no shorted wires to cabinet.</p> <p><b>GAS MODELS:</b> Ensure all wiring and connections between the control and spark module, spark module and bake / broil gas valve are good. If the wiring is good, go to step K.</p> <p><b>ELECTRIC MODELS:</b> Ensure all wiring and connections between the power board and elements, and the power board and the display board are good. If the wiring connections are not intact, go to step J. If the wiring is good, go to step I.</p> <p><b>F.</b> Unplug range or disconnect power.</p> <p><b>G.</b> Replace the power board. Go to step Q.</p> <p><b>H.</b> Unplug range or disconnect power.</p> <p><b>I.</b> Replace the display. Go to step Q.</p> <p><b>J.</b> Replace the harness. Go to step Q.</p> <p><b>K.</b> Replace spark module.</p> <p><b>L.</b> Replace all parts and panels before operating.</p> <p><b>M.</b> Plug in range or reconnect power.</p> <p><b>N.</b> Enter the Diagnostics mode described in steps 1-3 above chart on page 4. Press the BAKE key or the BROIL key to turn the bake or broil gas valve on and off. If the bake or broil valves will not turn off, go to step O. If the bake or broil valves will not turn off after being replaced, go to step H. If the bake or broil valves do turn off, go to step Q.</p> <p><b>O.</b> Unplug range or disconnect power.</p> <p><b>P.</b> Replace the bake / broil gas valve. Go to step L.</p> <p><b>Q.</b> Replace all parts and panels before operating.</p> <p><b>R.</b> Plug in range or reconnect power.</p> <p><b>S.</b> Verify operation is normal. Go to step 1 and complete checks.</p>		

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION  SUGGESTED CORRECTIVE ACTION PROCEDURE
<b>F5 Inputs</b>	<b>E0</b>	DOOR LATCH MSMATCH or DOOR LATCH MISMATCH (Door and latch switches do not agree.)
	<b>E1</b>	NO OPERATING LATCH or LATCH NOT OPERATING
	<b>E2</b>	DOOR SWITCH FAULT
	<b>E4</b>	LATCH SWITCH FAULT
	<b>E7</b>	UNLOCK DOOR ERROR or CAN NOT UNLOCK DOOR
<p><b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart on page 4 to enter the Diagnostics mode.</p> <p>TO VERIFY DOOR SWITCH:</p> <p><b>A.</b> While in Diagnostics, open the oven door. "1" should appear in the second clock digit from the left. Close the oven door. The clock digit should toggle to "0". If the digit did not toggle, go to step B. If the digit did not toggle after replacing the door switch, go to step D. If the digit did not toggle after replacing the door switch harness, go to step F. If the digit did toggle, door switch is operating correctly.</p> <p><b>B.</b> Unplug range or disconnect power.</p> <p><b>C.</b> Replace door switch. (If door switch is integral to the door latch motor assembly, replace the entire door latch motor assembly). Go to step H.</p> <p><b>D.</b> Unplug range or disconnect power.</p> <p><b>E.</b> Check integrity of all harness wires and connections between the power board and the door switch. Ensure no shorted wires to cabinet. If the wiring is bad, replace the door switch harness. Go to step H. If the wiring is good, go to step H.</p> <p><b>F.</b> Unplug range or disconnect power.</p> <p><b>G.</b> Replace power board. Go to step H.</p> <p><b>H.</b> Replace all parts and panels before operating.</p> <p><b>I.</b> Plug in range or reconnect power.</p> <p><b>J.</b> Enter the Diagnostics mode described in steps 1-3 above chart on page 4. Repeat step A.</p> <p>TO VERIFY DOOR LATCH SWITCH / MOTOR ASSEMBLY:</p> <p><b>A.</b> While in Diagnostics, press the CLEAN key to cycle the latch motor to the locked position. "1" should appear in the first clock digit from the left when locked. Press the CLEAN key to cycle the latch motor to the unlocked position. The clock digit should toggle to "0". If the digit did not toggle, go to step B. If motor runs continuously, wait until motor reaches the unlocked position, open the door, press the OFF key, go to step B. If motor did not run, go to step H. If the digit did not toggle after replacing the door latch motor assembly, go to step D. If the digit did not toggle after replacing the door latch switch harness, go to step F. If the digit did toggle, door latch switch is operating correctly.</p> <p><b>B.</b> Unplug range or disconnect power.</p> <p><b>C.</b> Replace door latch motor assembly. Go to step K.</p> <p><b>D.</b> Unplug range or disconnect power.</p> <p><b>E.</b> Check integrity of all harness wires and connections between the power board and the door latch switch. Ensure no shorted wires to cabinet. If the wiring is bad, replace the door latch switch harness. Go to step K. If the wiring is good, go to step K.</p> <p><b>F.</b> Unplug range or disconnect power.</p> <p><b>G.</b> Replace power board. Go to step K.</p> <p><b>H.</b> Unplug range or disconnect power.</p> <p><b>I.</b> Check integrity of latch mechanism from cam / eccentric through actuating rod, to latch pawl and door slot. Ensure that pawl aligns with the door slot. Correct any mechanical malfunction.</p> <p><b>J.</b> Check continuity of the latch motor and of electrical connections between power board P8 and motor. If continuity is present, replace power board. Go to step K.</p> <p><b>K.</b> Replace all parts and panels before operating.</p> <p><b>L.</b> Plug in range or reconnect power.</p> <p><b>M.</b> Enter the Diagnostics mode described in steps 1-3 above chart on page 4. Repeat step A.</p>		

FAILURE (Leftmost 2 Clock Digits)	ERROR (Rightmost 2 Clock Digits)	MESSAGE/DESCRIPTION  SUGGESTED CORRECTIVE ACTION PROCEDURE
<b>F6 Systems</b>	<b>E4</b>	LOST COMMUNICATION
<p><b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart on page 4 to enter the Diagnostics mode.</p> <p><b>A.</b> Unplug range or disconnect power.</p> <p><b>B.</b> Open the back panels and make sure the P2 connector is fully plugged in on the power board and on the display board. If it is not, plug it in to the connector and go to step F. If it is plugged in, go to step C.</p> <p><b>C.</b> Visually inspect all the four wires between P2 on the power board and P2 on the display board. Make sure the wires are not cut or pinched. If the wires appear to be intact, perform a continuity check between pin 4 of the power board and pin 4 of the display board. Do the same for pins 1, 2, &amp; 5. Both of these checks should result in a reading of less than 5 Ω. If either of these checks fail, go to step E. If these checks pass, reconnect P2, then go to step D.</p> <p><b>D.</b> Replace the power board. Ensure all connectors are properly seated and then go to step F.</p> <p><b>E.</b> Replace the wiring harness (signal) and go to step F.</p> <p><b>F.</b> Ensure all wiring connections are made.</p> <p><b>G.</b> Replace all parts and panels before operating.</p> <p><b>H.</b> Plug in range or reconnect power.</p> <p><b>I.</b> Observe for longer than 1 minute.</p> <p><b>J.</b> If error does not appear, initiate a bake cycle. Let the cycle run at least 1 minute. If no error occurs, cancel the cycle. The problem has been repaired. If the error occurs again, restart the troubleshooting procedure at step A (except in step D replace the display board if power board has already been replaced).</p>		
<b>F6 Systems</b>	<b>E5</b>	CANCEL KEY ERROR
<p><b>PROCEDURE:</b> Before proceeding, perform steps 1 through 3 above chart on page 4 to enter Diagnostic mode.</p> <p><b>A.</b> Unplug range or disconnect power.</p> <p><b>B.</b> Replace the display board.</p> <p><b>C.</b> Replace all parts and panels before operating.</p> <p><b>D.</b> Plug in range or reconnect power.</p> <p><b>E.</b> Verify operation is normal. Go to step 1 and complete checks.</p>		

**PART NO. W10109600**

**NOTE:** This sheet contains important Technical Service Data.  
**FOR SERVICE TECHNICIAN ONLY**  
**DO NOT REMOVE OR DESTROY**