

⚠ 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.

Software copyrighted. This product is covered by one or more of the following patents U.S. Patent Nos.

4,852,544	5,424,512	5,813,320	6,017,211	6,363,971	6,693,262
4,974,804	5,438,180	5,841,112	6,035,848	6,375,150	6,698,417
5,008,516	5,441,036	5,856,654	6,043,461	6,392,204	6,698,923
5,064,998	5,491,314	5,881,710	6,079,756	6,394,081	6,700,101
5,138,137	5,571,433	5,910,265	6,087,944	6,403,929	6,722,356
5,142,125	5,571,434	5,918,589	6,097,000	6,437,294	6,734,403
5,175,413	5,620,623	5,924,857	6,111,231	6,509,551	6,784,404
5,185,047	5,694,916	5,928,543	6,163,017	6,545,251	6,841,761
5,321,229	5,749,388	5,961,311	6,201,222	6,570,136	6,870,138
5,349,162	5,756,970	5,967,634	6,232,584	6,614,006	6,904,969
5,378,874	5,767,488	5,983,888	6,263,782	6,663,009	6,930,287
5,382,552	5,808,278	6,008,478	6,349,717	6,666,676	6,935,330
5,422,460	5,810,576				

Other Patents Pending.

Temperature Adjustment

- Press and hold BAKE key for 5 seconds. The current offset, if any, is shown in the display U-00.
- Pressing the TEMP/TIME “More” or “Less” arrow keys will adjust the temperature in 10°F (5°C) increments.
- Press the START key to activate the desired temperature adjustment. If the Start key is not pressed within 1 minute, adjustment is ignored.
- Bake temperature adjustment cannot result in operating temperatures higher than 500°F (260°C) or lower than 170°F (75°C), as measured at the oven cavity center.
- Once the bake temperature has been adjusted, broil temperatures are automatically offset to the same degree.

Diagnostics Mode

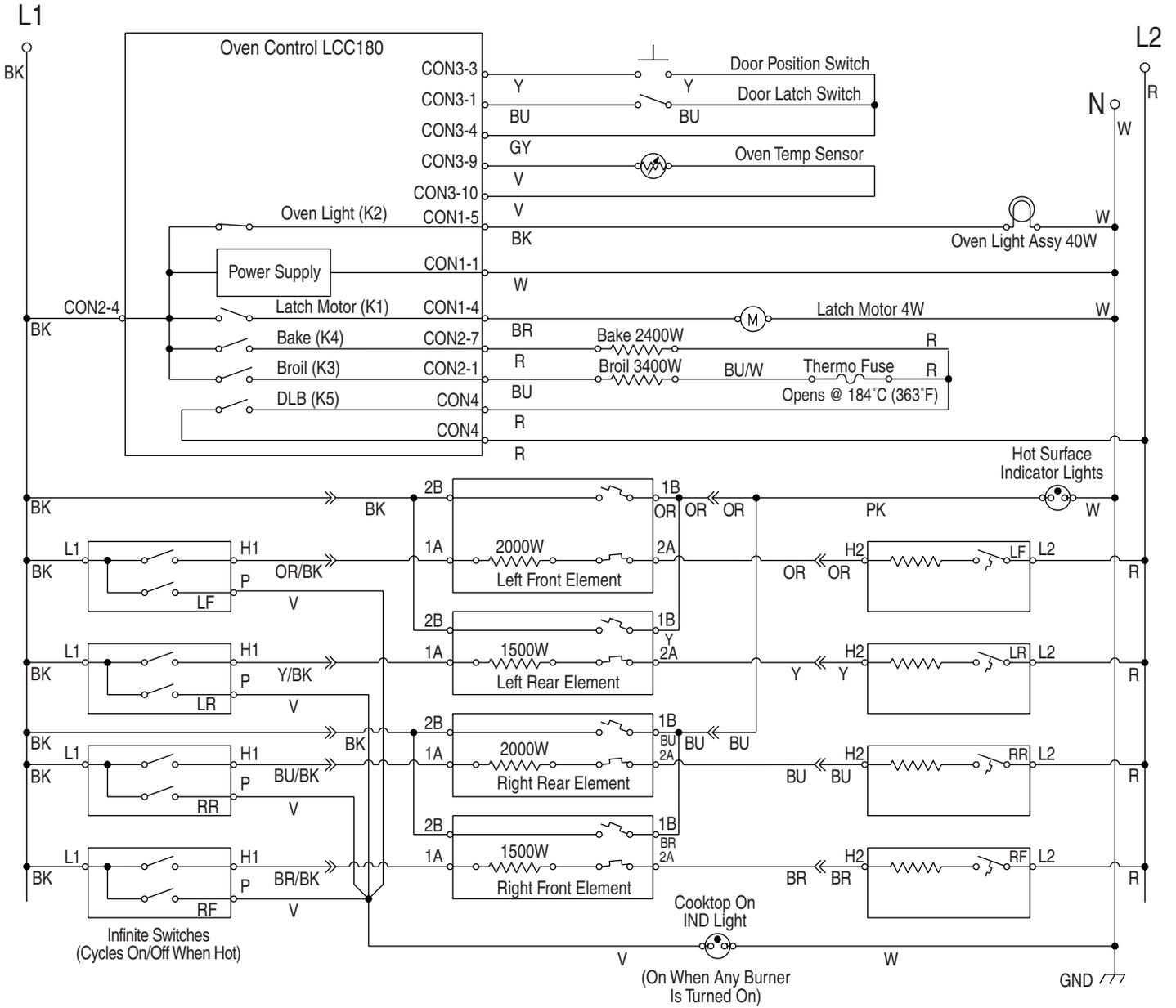
1. To enter into diagnostics mode press the CANCEL/OFF and START keys in the following order when the oven is not in cooking, broiling, or cleaning mode. CANCEL/OFF > CANCEL/OFF > START. The control will then indicate test in the display.
2. Press the TEMP/TIME “More” arrow key to read the following:
1 = oven sensor temperature; 2 = user cooking offset; 3 = software version; 4 = memory checksum; 5 = last fault code; 6 = accumulated operation time; 7 = switch state.
3. Note failure code and sensor value readings.
4. Find failure code in failure/error display codes chart and follow suggested action procedure listed for display code.

Failure/Error Display Codes

DISPLAY CODES		LIKELY FAILURE CONDITION	SUGGESTED CORRECTIVE ACTION PROCEDURE
GOOD		No error(s) found	(Good) No corrective action required
F1	E0 E1	Internal board failure	<ol style="list-style-type: none"> 1. Verify failure by displaying diagnostics mode screen (see above). If failure displayed does match, then continue. 2. If failure, unplug range or disconnect power. 3. Replace control. 4. Replace all parts and panels before operating. 5. Plug in range or reconnect power. 6. Verify operation is normal. Go to diagnostics screen and verify no error codes.
	E2	A/D Error(s)	
F2	E0	Shorted key	
F3	E0	Oven sensor opened	<ol style="list-style-type: none"> 1. Verify oven sensor temperature shown in diagnostics mode screen (see above) is at room temperature (typically 50 to 90°F [10 to 32.2°C]) and verify failure code. If failure code does match, then continue. 2. Unplug range or disconnect power. 3. Check all sensor connections on harness and board. 4. Disconnect sensor from harness. 5. Measure sensor value (between connector pins) between 1000Ω and 1200Ω. Also measure from sensor connector to sensor casing for possible short. If measurement does not correlate to real temperature, or if short is found, replace sensor. 6. Trace wires and connectors to sensor from control, then back to control. If wire or connection is damaged, replace the harness. If not, then replace oven temperature sensor. 7. Reconnect the sensor to the harness. 8. Replace all parts and panels before operating. 9. Plug in range or reconnect power. 10. Press BAKE and START. Observe for longer than 1 minute. 11. If failure does not reappear, stop. If failure remains, check wire connections.
	E1	Oven sensor shorted	
	E2	BAKE/BROIL range over temperature	
	E3	CLEAN range over temperature	
F5	E0 E2	Door and switches do not agree (Clean mode)	<ol style="list-style-type: none"> 1. Verify failure code shown in diagnostics mode screen. 2. Unplug range or disconnect power. 3. Check wires and connectors between control and door switch. 4. Inspect door for warping or misalignment. Verify door switch continuity with switch fully depressed manually. 5. If no damage to wires or connectors, replace door switch. 6. Replace all parts and panels before operating. 7. Plug in range or reconnect power. 8. Press CANCEL/OFF key, program and start the Clean mode, and observe for 1 minute to ensure that operation is normal. 9. Verify operation is normal. Go to Step 1 and complete checks.
F5	E1	Door latch not operating (Clean mode)	<ol style="list-style-type: none"> 1. Verify failure on diagnostics screen 5. Clear the error code by pressing the START key. 2. While in diagnostics mode press AUTO CLEAN key to run lock motor. <ol style="list-style-type: none"> a. If the door is not latched (locked) and the door locked icon is lighted, go to Step a1. <ol style="list-style-type: none"> 1. Unplug range or disconnect power. 2. Check integrity of latch mechanism from cam/eccentric, through actuating rod, to latch pawl and door slot. 3. Ensure that pawl aligns with the door slot. Correct any mechanical malfunction and go to Step 3. b. If the door is latched (locked) and the door locked icon is not lighted, go to Step b1. <ol style="list-style-type: none"> 1. Unplug range or disconnect power. 2. Replace motor assembly and go to Step 3. c. If the door is not latched (locked) and the door locked icon is not lighted, go to Step c1. <ol style="list-style-type: none"> 1. Unplug range or disconnect power. 2. Check continuity of the latch motor and the electrical connections between oven control and motor. <ul style="list-style-type: none"> - If continuity is present, replace control. Go to Step 3. - If continuity is not present, replace motor assembly. Go to Step 3. 3. Replace all parts and panels before operating. 4. Plug in range or reconnect power. 5. Put range into Clean mode to verify proper operation. 6. Verify normal operation. Go to Step 1 and complete checks.

Wiring Diagram

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

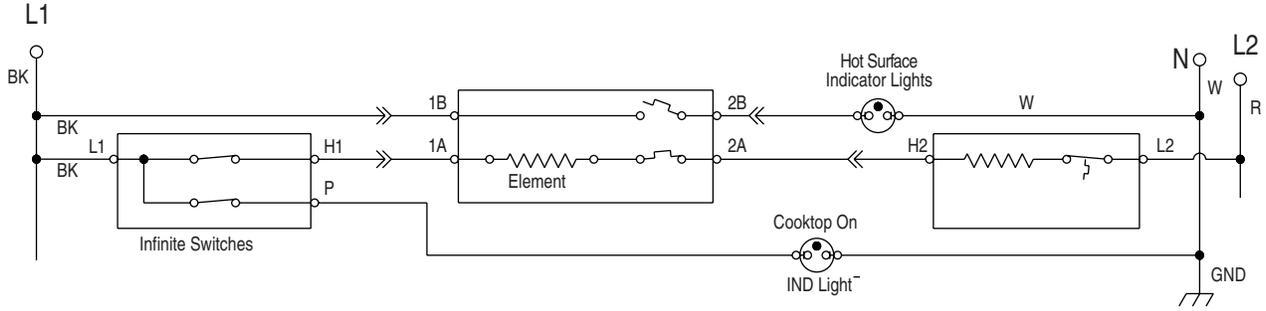


LEGEND

 Component Terminals	 Connection (Splice)	 No Connection	 On Some Models	 In Line Connection	CON1-2 = Connector 1 CON1 Position 2	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> Multiple Functions / Circuitry Enclosed Within </div>
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Strip Circuit

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% volt power supply at the wall outlet.



Strip Circuit Table

	From	To	Results	Notes
Door switch	Con 3-3	Con 3-4	Door open = open circuit Door closed = closed circuit	
Latch motor	Con 1-4	W (neutral)	500 - 3000Ω	Latch motor locks door at start of clean cycle
Oven temperature sensor	Con 3-9	Con 3-10	1000 - 1200Ω at room temperature	Disconnect connector con 3 from control before measuring oven temperature sensor
Oven light	Con 1-5	W (neutral)	0 - 40Ω nominal	
Thermo fuse	Con 2-1	Con 2-7	Closed circuit	Thermo fuse will open if exceeds temperature
Bake element	Con 2-7	Con 4	10 - 40Ω nominal. Check both Con4 terminals, one open circuit and one closed circuit.	In Bake mode, will cycle between bake and broil elements on
Broil element	Con 2-1	Con 4	10 - 40Ω nominal. Check both Con4 terminals, one open circuit and one closed circuit.	In Broil mode, only broil element on
Latch switch	Con 3-1	Con 3-4	Door open = open circuit Door closed = closed circuit	
Single burner elements	Term 2B	Term 1B	Thermal switch (2A) opens at 1100°F (593.3°C) Thermal switch (1B) closes/opens at 150°F (65.6°C) to turn on/off hot surface indicator light	Infinite switch cycles On/Off when hot Cooktop On indicator light is on when any burner is turned on

Quick Connect Plugs

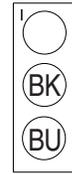
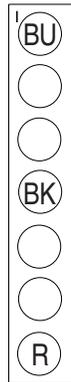
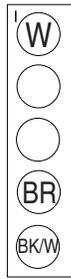
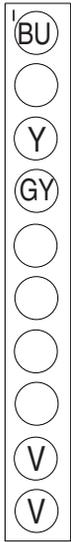
For controls

For cooktop

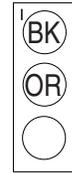
CON3

CON1

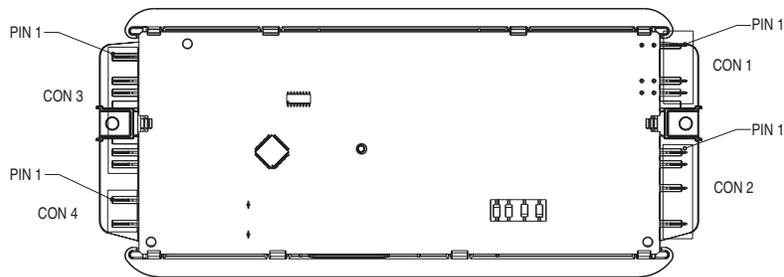
CON2



Right Side Cooktop



Left Side Cooktop



W10198619A

NOTE: This sheet contains important Technical Service Data.

**FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY**
