

WARNING

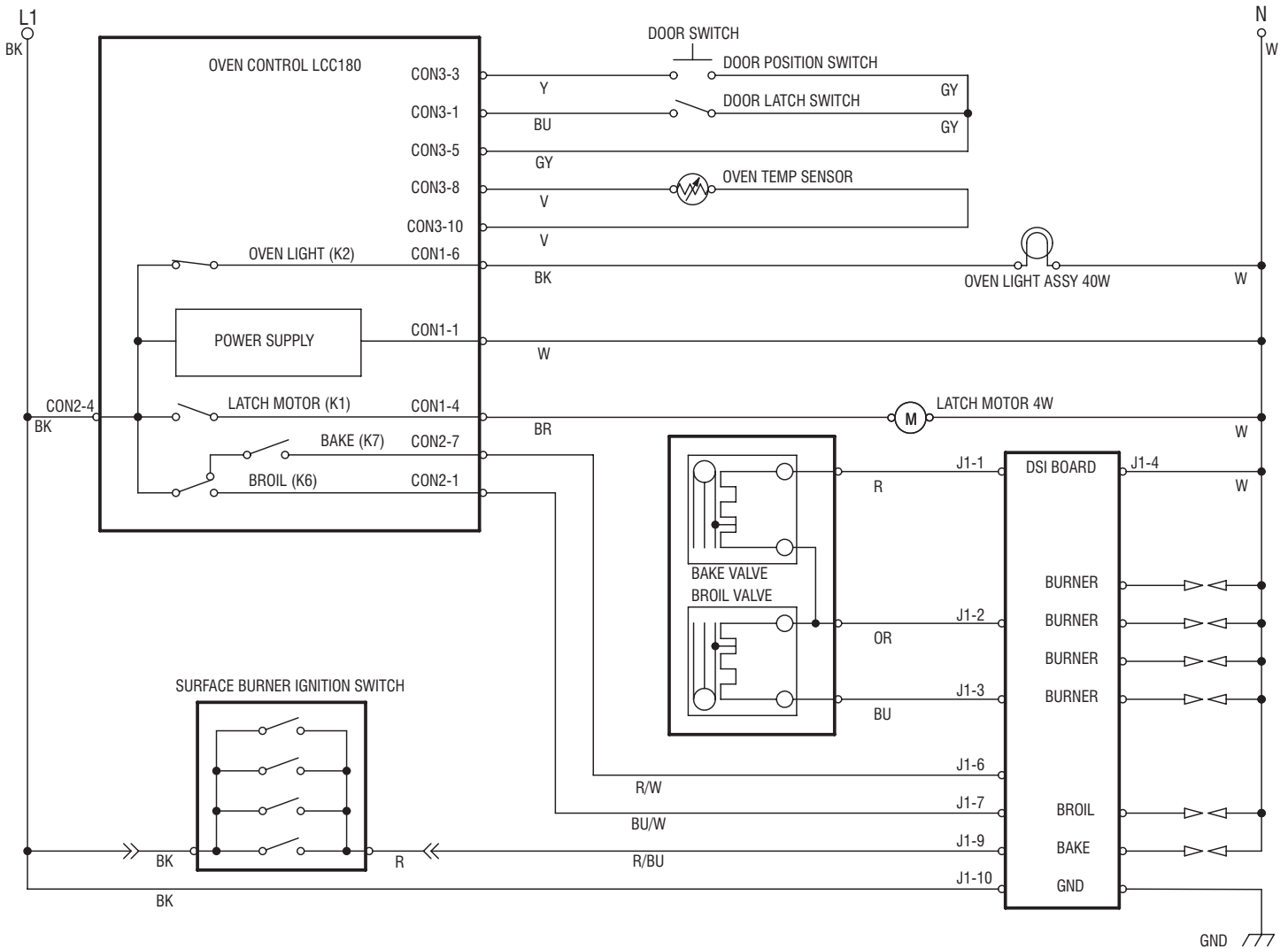
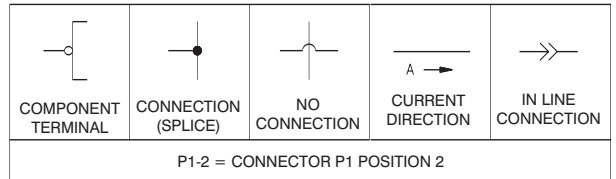


Electrical Shock Hazard
 Disconnect power before servicing.
 Replace all parts and panels before operating.
 Failure to do so can result in death or electrical shock.

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

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

LEGEND



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.

DIAGNOSTICS

Unplug range or disconnect power before performing the following checks:

- A potential cause of a control not functioning is corrosion on connections. Observe connections and check for continuity with an ohmmeter.
- Check all connections before replacing components, looking for broken or loose wires, failed terminals, or wires not pressed into connectors far enough.

- All tests/checks should be made with a VOM or DVM having a sensitivity of 20,000 ohms per volt DC or greater.
- Resistance checks must be made with power cord unplugged from outlet, and with wiring harness or connectors disconnected.

Temperature Adjustment

- Press and hold BAKE key for five (5) seconds. The current offset, if any, is shown in the display U-00.
- Pressing the TEMP/HOUR '+' or '-' key adjusts the temperature in 10°F 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 or lower than 170°F, as measured at the oven cavity center.
- Once the BAKE temperature has been adjusted, BROIL temperatures are automatically offset to the same degree.

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	EEPROM communications	1. Verify failure, if not displayed. Go to Diagnostics screen 5 (A-Last Fault Code/ B-Cleared Error Code), page 4; and clear the error code by pressing the START key. 2. Unplug range or disconnect power longer than 30 seconds. 3. Plug in range or reconnect power. 4. Observe for longer than 1 minute. 5. If failure remains, go to step 6. 6. Unplug range or disconnect power. 7. Replace control. 8. Replace all parts and panels before operating. 9. Plug in range or reconnect power. 10. Verify operation is normal. Go to step 1 and complete checks.
	E1	EEPROM checksum failure	
	E2	UL A/D error(s)	
F2	E0	Shorted key	1. Verify failure, if not displayed. Go to Diagnostics screen 5 (A-Last Fault Code/ B-Cleared Error Code), page 4; and clear the error code by pressing the START key. 2. Unplug range or disconnect power longer than 30 seconds. 3. Plug in range or reconnect power. 4. Observe for longer than 1 minute. 5. If failure remains, go to step 6. 6. Unplug range or disconnect power. 7. Replace control. 8. Replace all parts and panels before operating. 9. Plug in range or reconnect power. 10. Verify operation is normal. Go to step 1 and complete checks.
F3	E0	Oven sensor opened	1. Unplug range or disconnect power. 2. Disconnect sensor from harness. 3. Measure sensor value (between connector pins) between 1000 Ω @ 32°F and 2697 Ω @ 900°F (room temperature approx. = 1080 Ω). 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. 4. Trace wires and connectors from control to sensor, then from sensor to control. If wire or connection is damaged, replace the harness. 5. Reconnect the sensor to the harness. 6. Replace all parts and panels before operating. 7. Plug in range or reconnect power. 8. Press BAKE and START. Observe for longer than 1 minute. 9. If failure remains, go to step 10. 10. Unplug range or disconnect power. 11. Replace control. 12. Replace all parts and panels before operating. 13. Plug in range or reconnect power. 14. Verify operation is normal. Go to step 1 and complete checks.
	E1	Oven sensor shorted	
	E2	BAKE/BROIL range over temperature	
	E3	CLEAN range over temperature	

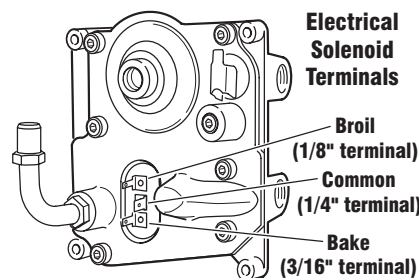
Continued...

DISPLAY CODES		LIKELY FAILURE CONDITION	SUGGESTED CORRECTIVE ACTION PROCEDURE
F5	E0	Door and switches do not agree	<ol style="list-style-type: none"> 1. Unplug range or disconnect power. 2. Check wires and connectors from control to door switch, then from door switch to control. 3. If no damage to wires or connectors, replace door switch. 4. Replace all parts and panels before operating. 5. Plug in range or reconnect power. 6. Press Cancel/OFF key. Program and start the CLEAN mode, and observe for 1 minute to ensure that operation is normal. 7. Go to step 1 and complete checks.
	E1	Door latch not operating	<ol style="list-style-type: none"> 1. Verify failure, if not displayed. Go to Diagnostics screen 5 (A-Last Fault Code/ B-Cleared Error Code), page 4;and clear the error code by pressing the START key. 2. Go to Diagnostics mode. Press AUTO CLEAN key to cycle from locked to unlocked states. <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. Go to step 1 and complete checks.
	E2	Latch error during CLEAN	<ol style="list-style-type: none"> 1. Unplug range or disconnect power. 2. Check wires and connectors from control to door switch, then from door switch to control. 3. If no damage to wires or connectors, replace door switch. 4. Replace all parts and panels before operating. 5. Plug in range or reconnect power. 6. Press Cancel/OFF key. Program and start the CLEAN mode, and observe for 1 minute to ensure that operation is normal. 7. Go to step 1 and complete checks.

COMPONENT CHECK

Check between each solenoid for 216 Ω resistance (Broil terminal to Common, and Bake terminal to Common).

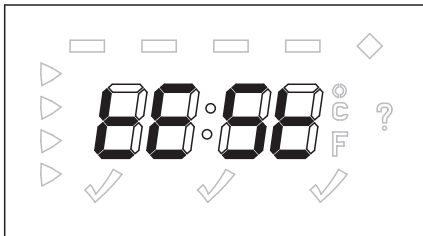
NOTE: Always check both solenoids. If one of the solenoids is defective, neither one will operate.



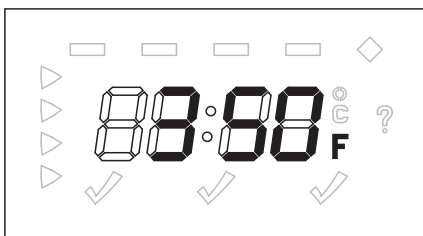
DIAGNOSTICS SCREENS

- 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.
- Press the TEMP arrow UP key to read the following:
1=Oven sensor temperature; 2=User cooking offset; 3=Software version; 4=Memory checksum; 5A=Last fault code;
5B=Cleared error code; 6=Accumulated operational time; 7=Switch state.

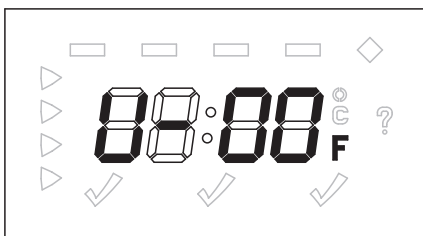
Screen 0: Diagnostics Mode



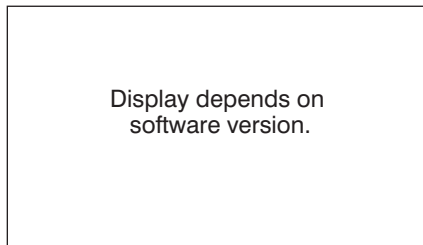
Screen 1: Oven Sensor Temperature



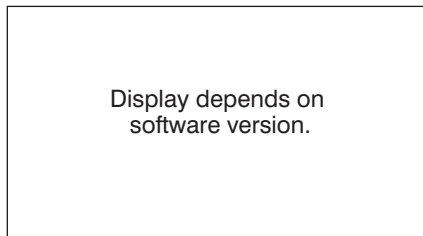
Screen 2: User Offset



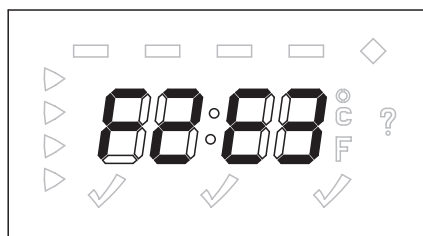
Screen 3: Software Version



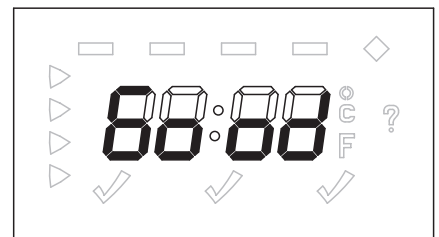
Screen 4: Memory Checksum



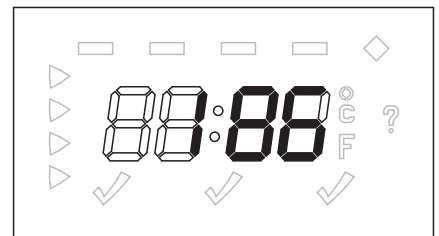
Screen 5A: Last Fault Code



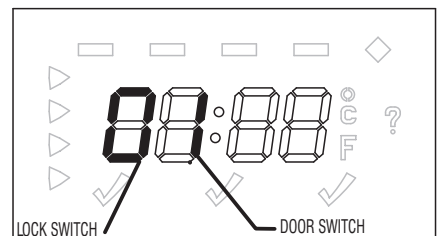
Screen 5B: Cleared Error Code



Screen 6: Accumulated Operational Time



Screen 7: Switch State

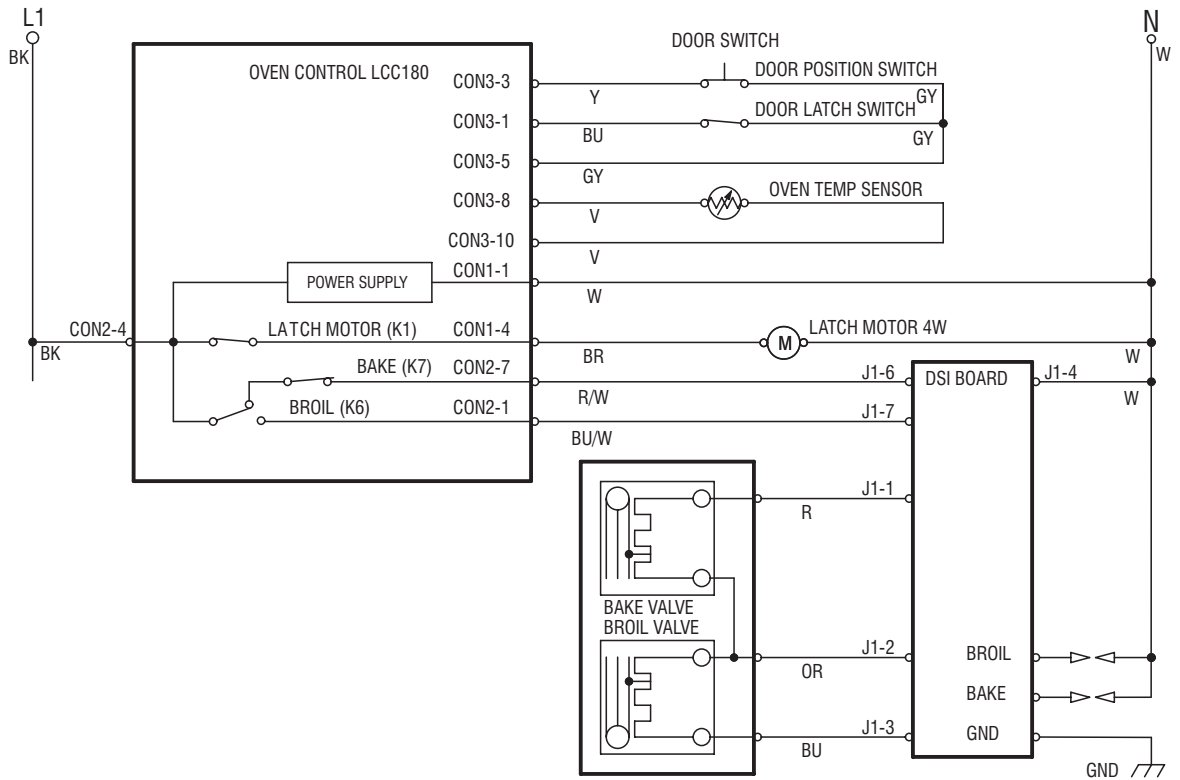


- 0 = OPEN (UNLOCKED)
- 1 = CLOSED (LOCKED)

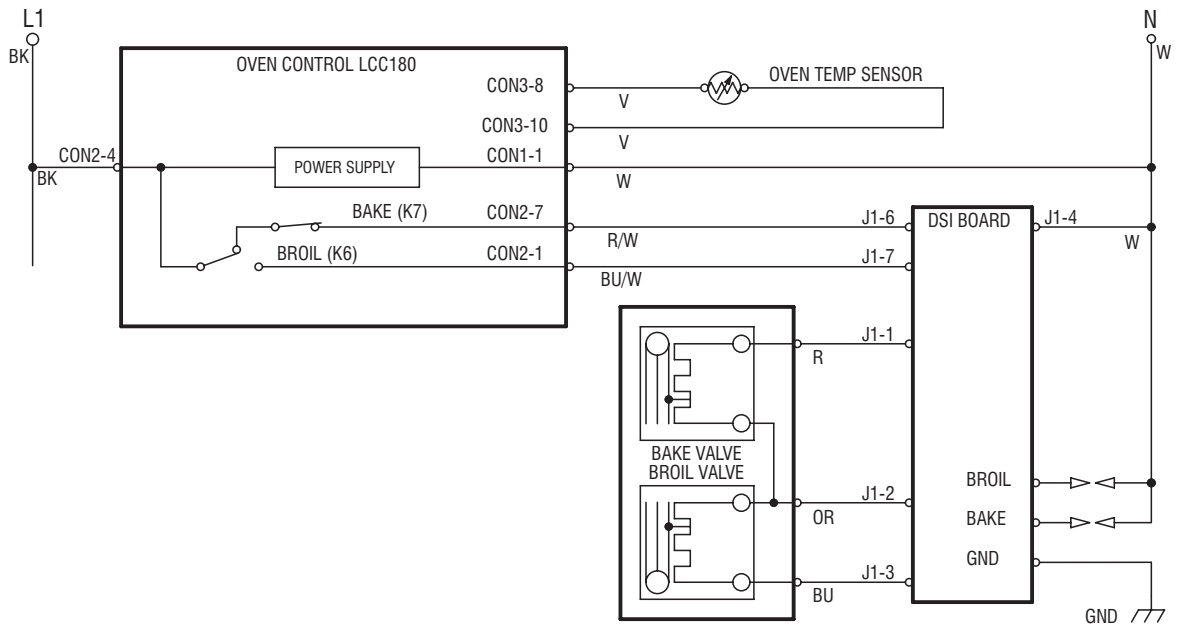
STRIP CIRCUITS

The following individual circuits are for use in diagnosis, 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 volt power supply at the wall outlet.

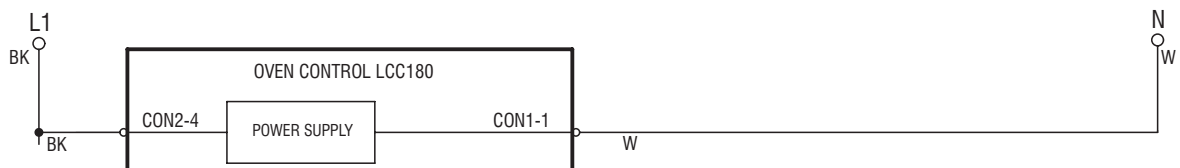
CLEAN



BAKE



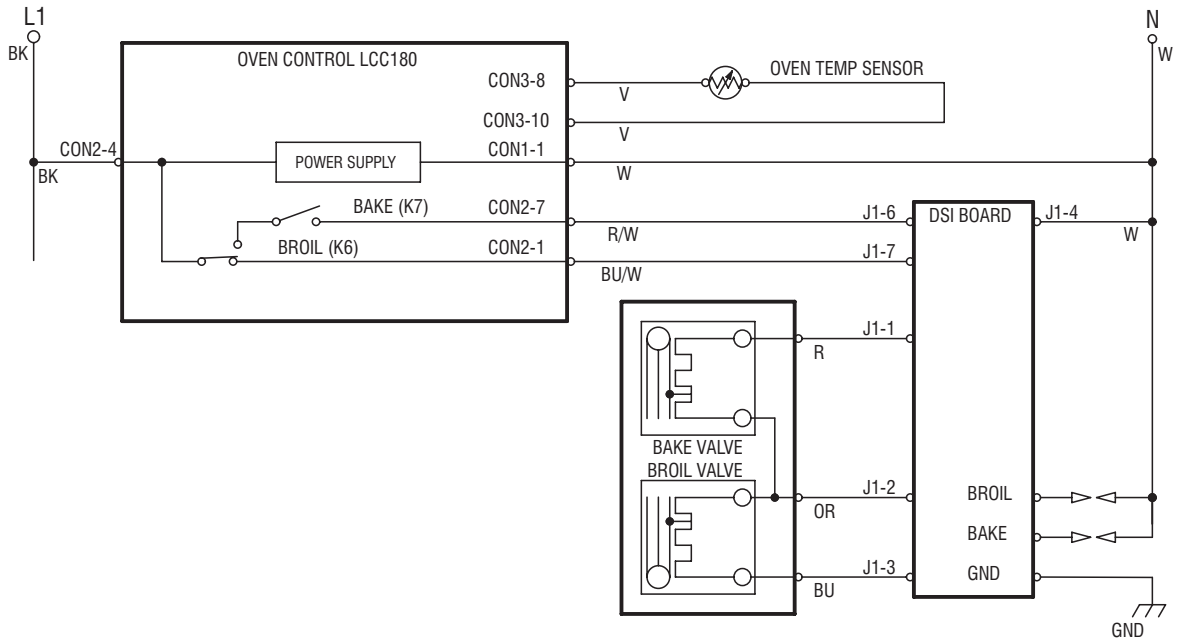
CONTROL POWER



STRIP CIRCUITS

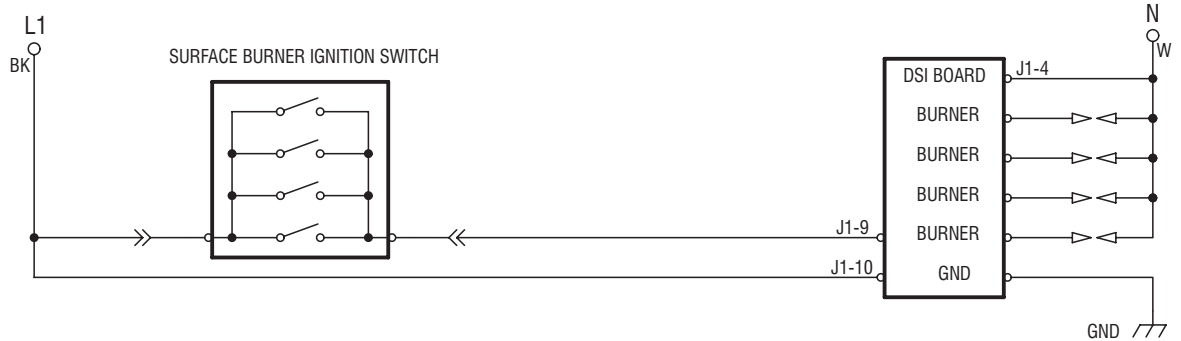
The following individual circuits are for use in diagnosis, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 volt power supply at the wall outlet.

BROIL

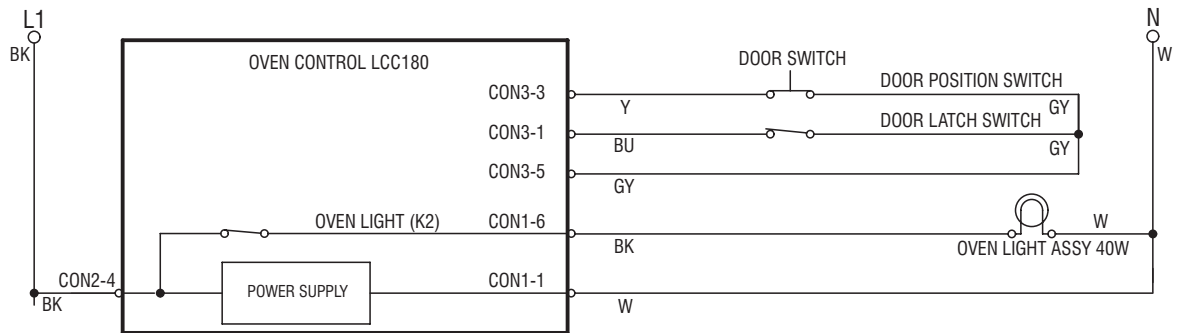


SURFACE UNIT

Typical

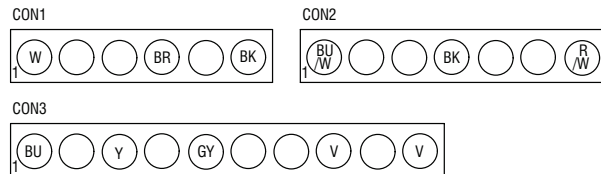


OVEN LIGHT



QUICK CONNECT PLUGS

For controls



PART NO. 9762973 REV. A

NOTE: This sheet contains important Technical Service Data.

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