

## WARNING



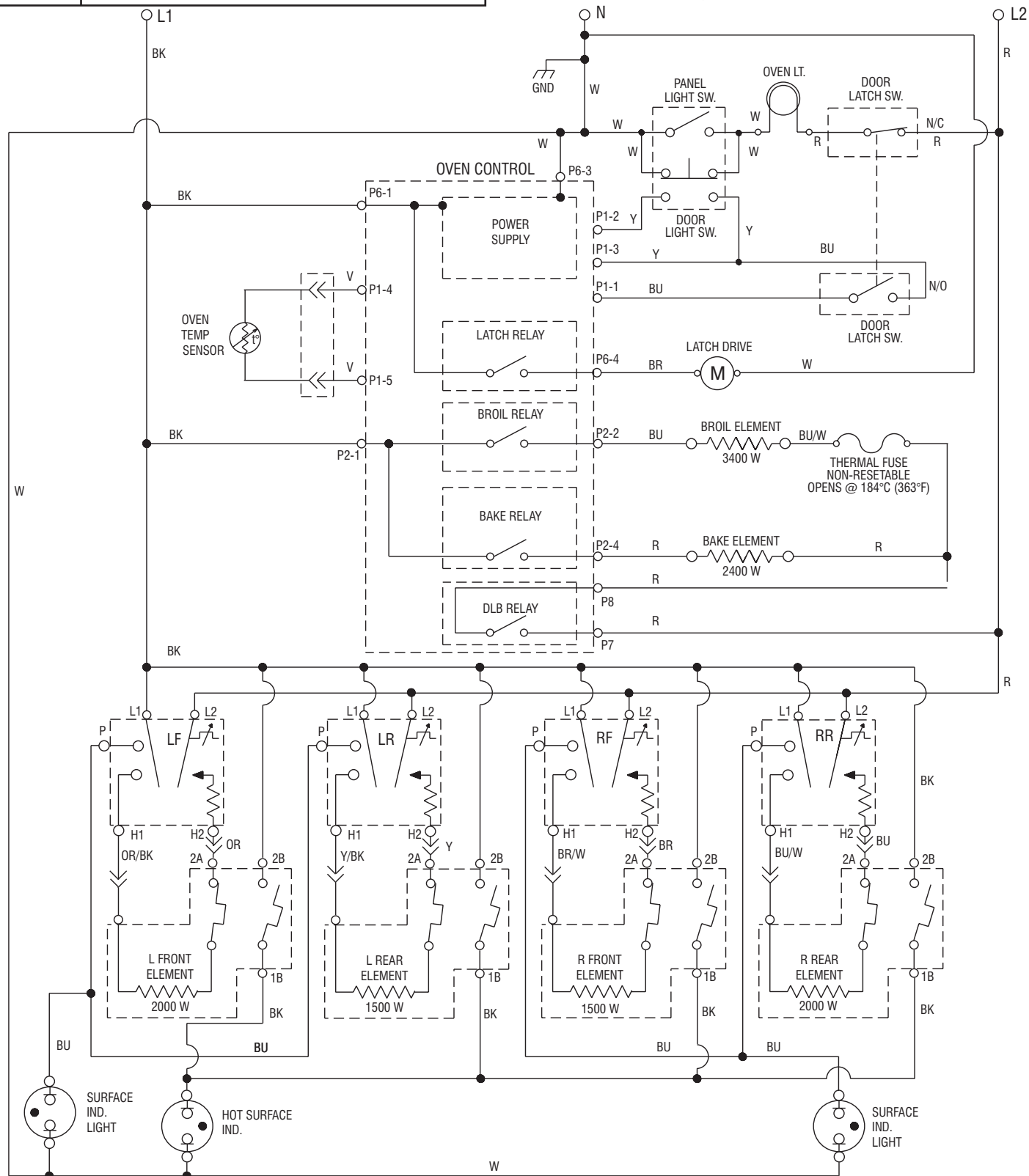
**Electrical Shock Hazard**  
Disconnect power before servicing.  
Replace all parts and panels before operating.  
Failure to do so can result in death or  
electrical shock.

MANUFACTURED UNDER ONE OR MORE  
OF THE FOLLOWING U.S. PATENTS:

3,659,578	3,877,460	4,467,184
3,788,300	4,102,322	4,565,967
3,832,988	4,364,589	4,613,739

OTHER PATENTS PENDING.

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



## 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 If Control Has Touch Pads Only

- Press and hold BAKE pad for five (5) seconds. Current offset, if any, is shown in 3-digit display. CAL is shown in 4-digit display (3 digits on right).
- Pressing the TEMP pad "up" arrow (▲) adjusts the temperature in 10°F increments in the following sequence: 0°, 10°, 20°, 30°, -30°, -20°, -10°, 0°, and so on.
- Press START/ENTER pad to activate the desired temperature adjustment. If the START/ENTER pad 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 oven cavity center.
- Once the BAKE temperature has been adjusted, BROIL temperatures are automatically offset to the same degree.
- CLEAN temperature is also offset automatically when BAKE temperature is adjusted. If BAKE temperature has been

raised, CLEAN temperature is offset +5°F. If BAKE temperature has been lowered, CLEAN temperature is offset -5°F.

### Temperature Adjustment If Control Has Temperature Knob

- Press and hold CLOCK pad for five (5) seconds. Current offset, if any, is shown in 3-digit display.
- Pressing the "up" arrow (▲) adjusts the temperature in 10°F increments in the following sequence: 0°; 10°; 20°; 30°; -30°; -20°; -10°; 0°; and so on.
- Press the CLOCK pad to activate the new temperature adjustment.
- If the CLOCK pad is not pressed within 1 minute, the adjustment is accepted and display reverts to idle.
- BAKE temperature adjustment cannot result in operating temperatures higher than 500° F, or lower than 170° F, as measured at oven cavity center.
- Once the BAKE temperature has been adjusted, BROIL temperatures are automatically offset to the same degree.

## FAILURE/ERROR DISPLAY CODES

1. To enter into the test mode, simultaneously hold down the "BAKE" and "CLOCK" keys for 5 seconds, within 60 seconds of power up. The control will then indicate "tEst" in the display.
2. Press the arrow down key in order to read the following:  
1= oven sensor temperature; 2=user cooking offset; 3=software version; 4=memory checksum; 5=last fault code.

4-DIGIT DISPLAY	3-DIGIT DISPLAY	LIKELY FAILURE CONDITION	SUGGESTED CORRECTIVE ACTION PROCEDURE
<b>F0</b>	<b>E0</b>	No error(s) found	(Good) No corrective action required.
<b>Go</b>	<b>od</b>		
<b>F1</b>	<b>E0</b>	EEPROM communications error	1. Verify failure if not displayed, using CANCEL/OFF key. Press key for 5 seconds until last error code is displayed. 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.
	<b>E1</b>	EEPROM checksum failure	
	<b>E2</b>	UL A/D error(s)	
<b>F2</b>	<b>E0</b>	Shorted key/Stuck key	1. Verify failure if not displayed, using CANCEL/OFF key. Press for 5 seconds. 2. Unplug range or disconnect power. 3. If applicable, ensure membrane tail is seated in connector on back of control. 4. Plug in range or reconnect power and observe for longer than 1 minute. 5. If failure remains, go to step 6. 6. Unplug range or disconnect power. 7. Replace control.
	<b>E1</b>	Keytail unplugged	
<b>F3</b>	<b>E0</b>	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 to sensor from control, then back to control. If wire or connection is damaged, replace the harness. 5. Reconnect the sensor to the harness. 6. Plug in range or reconnect power. 7. Press BAKE and START/ENTER. Observe for longer than 1 minute. If failure remains, go to step 8. 8. Unplug range or disconnect power. 9. Replace control.
	<b>E1</b>	Oven sensor shorted	
	<b>E2</b>	BAKE/BROIL range over temperature	
	<b>E3</b>	CLEAN range over temperature	
<b>F5</b>	<b>E0</b>	Door and switches do not agree	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. Plug in range or reconnect power. 5. Press CANCEL/OFF key. Program and start the CLEAN mode, and observe for 1 minute to ensure that operation is normal.

Continued...

FAILURE/ERROR DISPLAY CODES

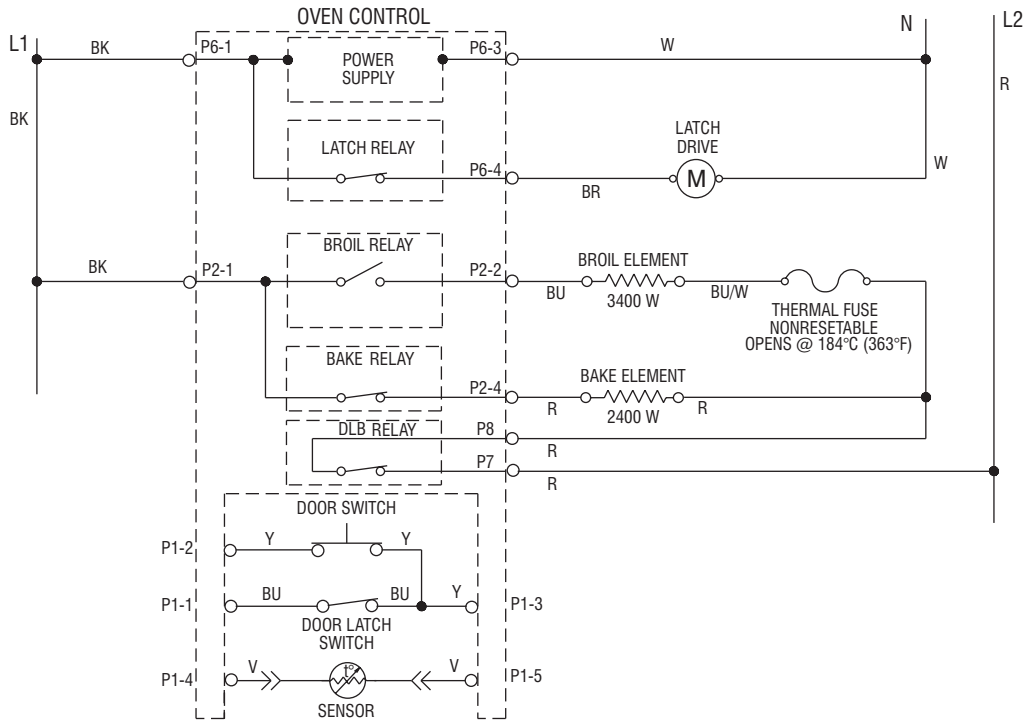
4-DIGIT DISPLAY	3-DIGIT DISPLAY	LIKELY FAILURE CONDITION	SUGGESTED CORRECTIVE ACTION PROCEDURE
F5	E1	Door latch not operating	<div>1. Verify error code by pressing and holding CANCEL/OFF key for 5 seconds. Momentarily (less than 5 sec.) press CANCEL/OFF key again to remove error code display.</div> <div>2. If the door is not latched (locked), ensure that it is completely closed. Press CLEAN then START/ENTER. Verify that the latch motor is operating.</div> <div>3. Unplug range or disconnect power.</div> <div>4. If motor did operate, 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. Go to step 6.</div> <div>5. If motor did not operate, check continuity of the latch motor and of electrical connections between oven control and motor. If continuity is present, replace control.</div> <div>6. Plug in range or reconnect power.</div> <div>7. Put range into CLEAN mode to verify proper operation.</div>
	E2	Latch error during CLEAN	<div>1. Unplug range or disconnect power.</div> <div>2. Check wires and connectors from control to door switch, then from door switch to control.</div> <div>3. If no damage to wires or connectors, replace door switch.</div> <div>4. Plug in range or reconnect power.</div> <div>5. Press CANCEL/OFF key. Program and start the CLEAN mode, and observe for 1 minute to ensure that operation is normal.</div>
OVEN ON LED flashing*		The oven knob is not in the OFF position when the unit is powered up	Turn oven knob to OFF and then turn to the desired temperature.
DOOR LOCKED/ CLEANING and HEATING LED flashing*		Center tap voltage failure	<div>1. Unplug range or disconnect power.</div> <div>2. Replace control.</div>

\*Knob 150 controls only

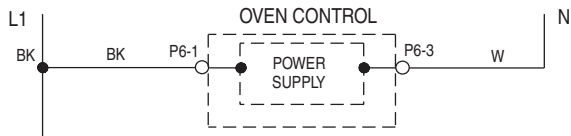
**STRIP CIRCUITS**      The following individual circuits are for use in diagnoses, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 volt power supply at the wall outlet.

CLEAN

Bake and broil relays cycle.



CONTROL POWER

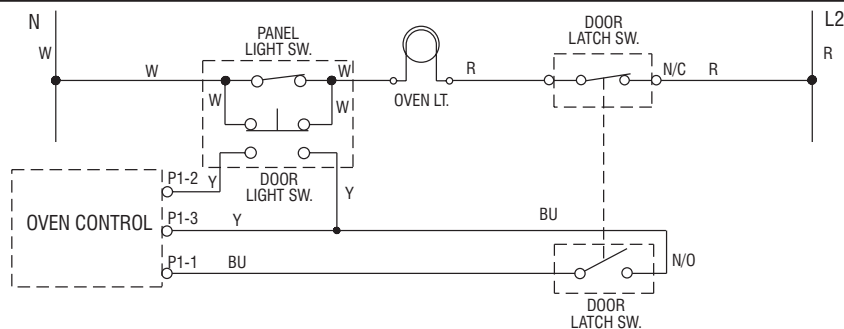


**STRIP CIRCUITS**

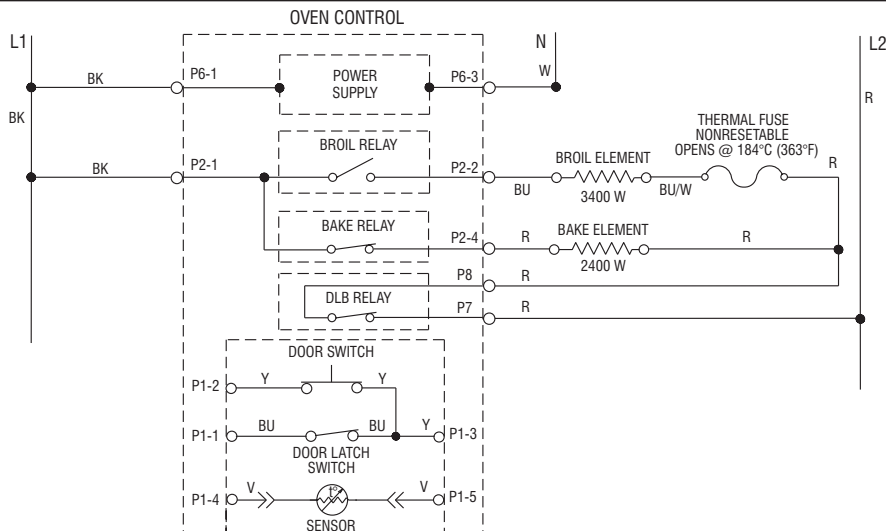
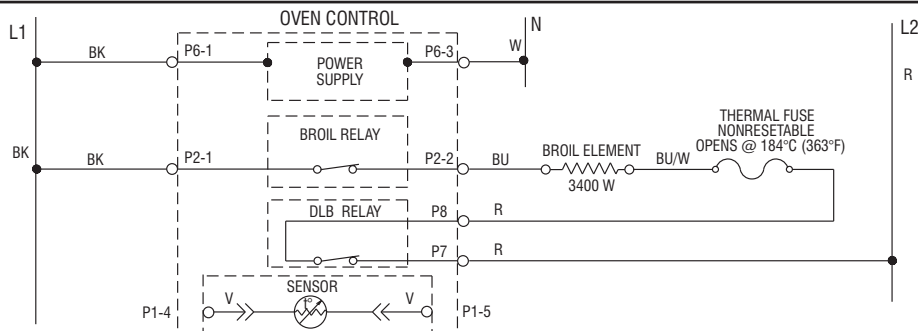
The following individual circuits are for use in diagnoses, and are shown in the ON position. Do not continue with the diagnosis of the appliance if a fuse is blown, a circuit breaker is tripped, or if there is less than a 240 volt power supply at the wall outlet.

**OVEN LIGHT**

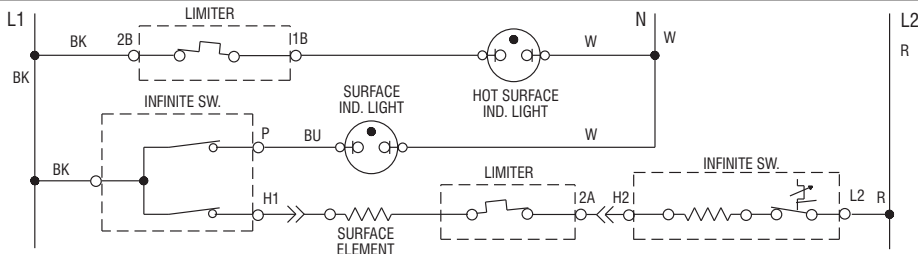
If equipped

**BAKE**

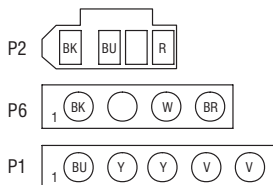
Bake and broil relays cycle.

**BROIL****SURFACE UNIT**

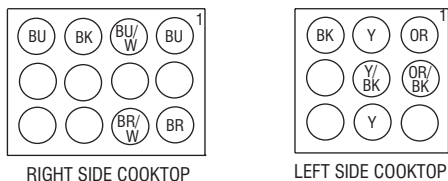
Typical

**QUICK CONNECT PLUGS**

For controls

**QUICK CONNECT PLUGS**

For cooktop if applicable



**PART NO. 9757347 REV. A**

**NOTE:** This sheet contains important Technical Service Data.

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