

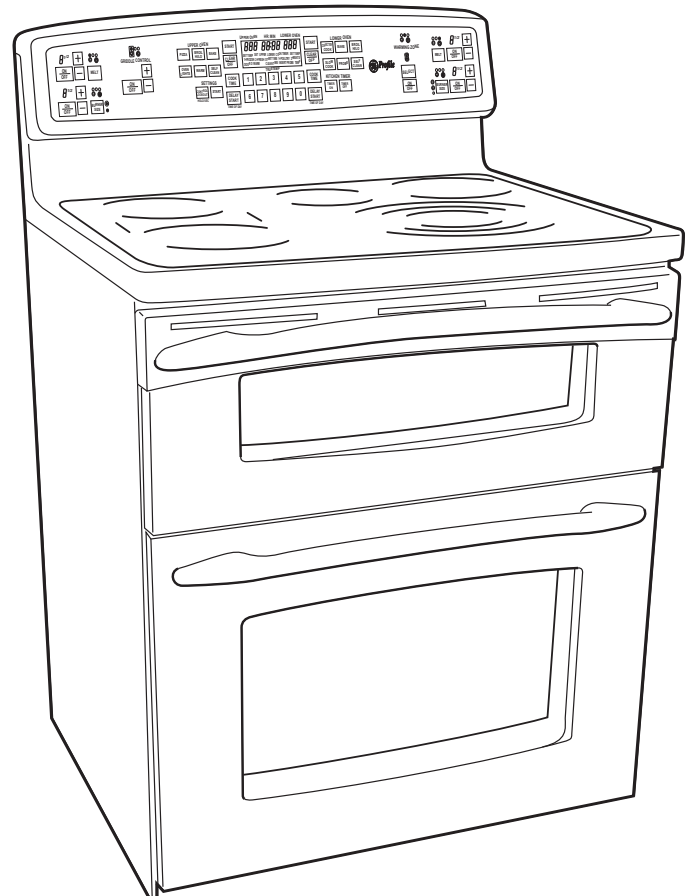
GE Consumer & Industrial

Technical Service Guide

July 2009

Profile 30-in. Free-Standing Double Oven Range

PB978DP1BB
PB978SSP1SS
PB978TP1WW



31-9187



GE Appliances
General Electric Company
Louisville, Kentucky 40225



IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

*GE Consumer & Industrial
Technical Service Guide
Copyright © 2009*

All rights reserved. This service guide may not be reproduced in whole or in part in any form without written permission from the General Electric Company.

Table of Contents

Capacitive Touch Glass	19
Component Locator Views.....	10
Control Features.....	6
Control Panel	19
Control Panel Assembly.....	19
Cooktop Burner Controls.....	6
Daughter Relay Board (DRM)	17
Diagnostics and Service Information.....	22
Electrical Installation.....	9
Griddle Burner Control.....	7
Hidden Bake Element	18
Installation	8
Introduction.....	4
Key Panel Test.....	24
LIN Test	24
Main Logic Board	20
Main Logic Board Failure Codes	22
Nomenclature	5
Oven Components	16
Oven Sensors.....	25
Rear Cover Removal	16
Relay Boards Connector Locator Views.....	13
Relay Board Voltages.....	25
RPSM Aux Board	17
RPSM Main Board	16
Sales/Demo Mode.....	8
Schematics and Wiring Diagrams.....	26
Self Clean.....	7
Test Mode.....	24
Thermal Cutout (TCO)	17
Warming Zone Control.....	6
Warranty	29

Introduction

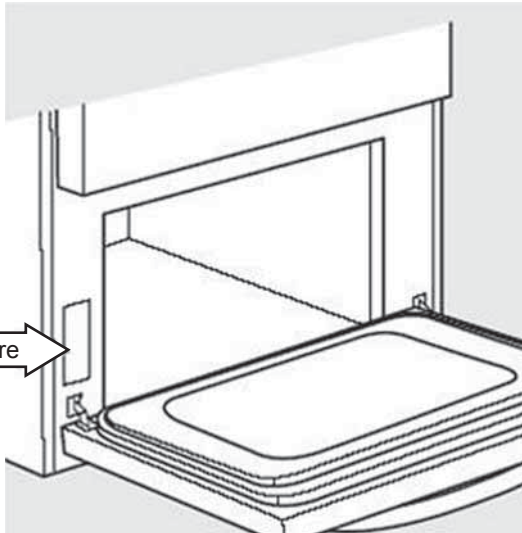
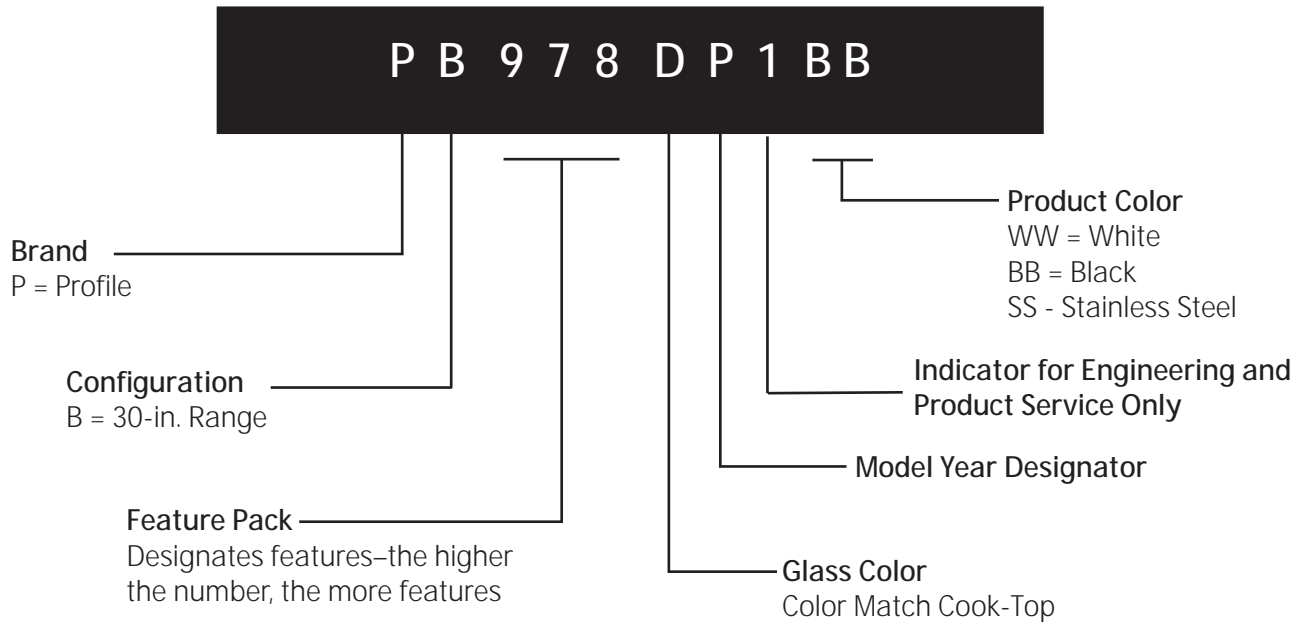
GE's second generation Profile 30-in. free-standing double oven range is available with convection cooking in the lower oven. These ranges feature electronic oven and surface unit controls that combine modern digital technology with ease of operation. Their superior style and performance parallel many commercial ranges.

- Electronically controlled oven heating elements - provide precise cooking control with fast preheating.
- Convection mode uses reverse-air convection technology - a bidirectional fan that works with a dedicated third heating element to promote even heat circulation.
- Performance compensation for 208-volt installation boosts power as needed in multifamily dwellings.
- 6.5 cu. ft. total capacity.
- Cooktop locked out during self-clean.
- New motorized self-clean door latch.
- Recessed convection, low-profile broil elements, and hidden lower oven bake element.
- Full-extension, self-cleaning, porcelain-coated racks that can be left in the oven during the self-clean cycle.



Nomenclature

Model Number



Nomenclature

The nomenclature plate is located on the front left, behind the oven door.

The mini-manual is placed in an envelope located inside the control panel.

Serial Number

The first two numbers of the serial number identify the month and year of manufacture.

Example: **AS123456S** = January, 2009

A - JAN	2009 - S
D - FEB	2008 - R
F - MAR	2007 - M
G - APR	2006 - L
H - MAY	2005 - H
L - JUN	2004 - G
M - JUL	2003 - F
R - AUG	2002 - D
S - SEP	2001 - A
T - OCT	2000 - Z
V - NOV	1999 - V
Z - DEC	1998 - T

The letter designating the year repeats every 12 years.

Example:

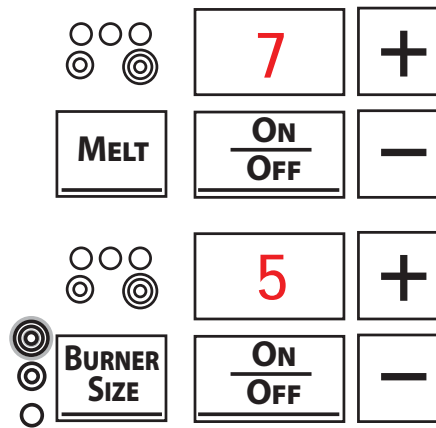
T - 1974
T - 1986
T - 1998

Control Features

Cooktop Burner Controls

To use the cooktop burners:

1. Touch the **ON/OFF** pad for the desired burner.
2. Use the +/- pads to select the desired power setting. Nineteen power levels are available (L, 1 through 9 with ½ step increments, and H).
3. Touching the **MELT** pad selects the low setting.
4. Some burners have multiple cooking zones. Touching the **BURNER SIZE** pad after the burner is on selects the desired burner size. If no selection is made, all cooking zones for that burner will be on.
5. Touch the **ON/OFF** pad again to turn the burner off.



Warming Zone Control

To use the warming zone:

1. Touch the **ON/OFF** pad.
2. Touch the **SELECT** pad for the desired setting (L/M/H).
3. Touch the **ON/OFF** pad again to turn the warming zone off.

Warming Zone	
Setting	6" Warmer
Hi	95%
Med	65%
Lo	36%



Griddle Burner Control

Griddle temperature is regulated by an algorithm built into the control. It takes into consideration the mass of the griddle, temperature selection, and the on/off times of the front and rear burners to approximate the customer setting, but it will vary somewhat with the quantity of food on the griddle.

Note:

- Use only the griddle pan provided with the range.
- The non-stick coating on the griddle will degrade if exposed to temperatures above 550°F.
- Do not clean the griddle in the self-clean oven.

To use the cooktop griddle control:

1. Touch the **ON/OFF** pad.
2. Use the +/- pads to select the desired temperature setting. Temperature settings range from 200°F to 400°F in 25°F increments. The default setting is 375°F.
3. "PrE" will be displayed until the desired temperature is reached. The left front and left rear burners will cycle to maintain the selected temperature.
4. Touch the **ON/OFF** pad again to turn the cooktop griddle off.



Self Clean

The self clean procedure on the double oven is virtually the same as on the previous version with one exception. When in clean mode, the cooktop is still locked out, but instead of using a cooktop lockout relay, lockout is done electronically by the main logic board.

Installation

Sales/Demo Mode

The demo kit model number is PB978 Demo Kit - Electric Ranges with Backlit Touchkeys. The cord is available as Pub 3-A029. There is no change to the cord; the only difference is how the cord is attached to this model range.

The following features are disabled in Demo Mode:

- Oven heating elements
- Surface burners
- Convection fan
- Door latch motors

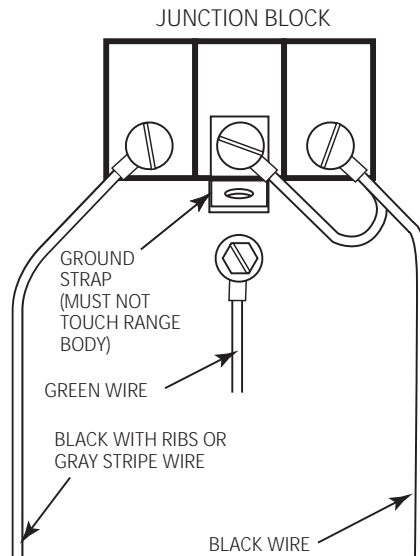
Caution: This kit must be installed by qualified personnel only.

To install the demo kit:

1. Disconnect the ground strap from the range body (the strap must not contact the range structure or the ground wire).
2. Connect the green wire to the range body using the grounding screw.
3. Connect the single black wire with ribs or the gray stripe wire to the left terminal of the junction box.
4. Connect the larger of the two smooth black wires to the right terminal of the junction box and the smaller of the two smooth black wires to the center terminal.
5. The cord is to be plugged into a 120V, 60 Hz polarized and grounded outlet.

To remove the demo kit:

To reverse the above process, ensure that the ground strap is reconnected to the range body using the grounding screw.



Note: The black wire with ribs or gray stripe is neutral

Electrical Installation

A "bAd LinE" will be displayed to signal a terminal block cord miswire. This error will also appear if 120 VAC is not present between MJ21-5 and MJ20-3. It will also appear if there is less than 200 VAC between MJ20-1 and MJ20-3. MJ20 and MJ21 are both located on the RPSM main board. (See *Schematics and Wiring Diagrams*.)

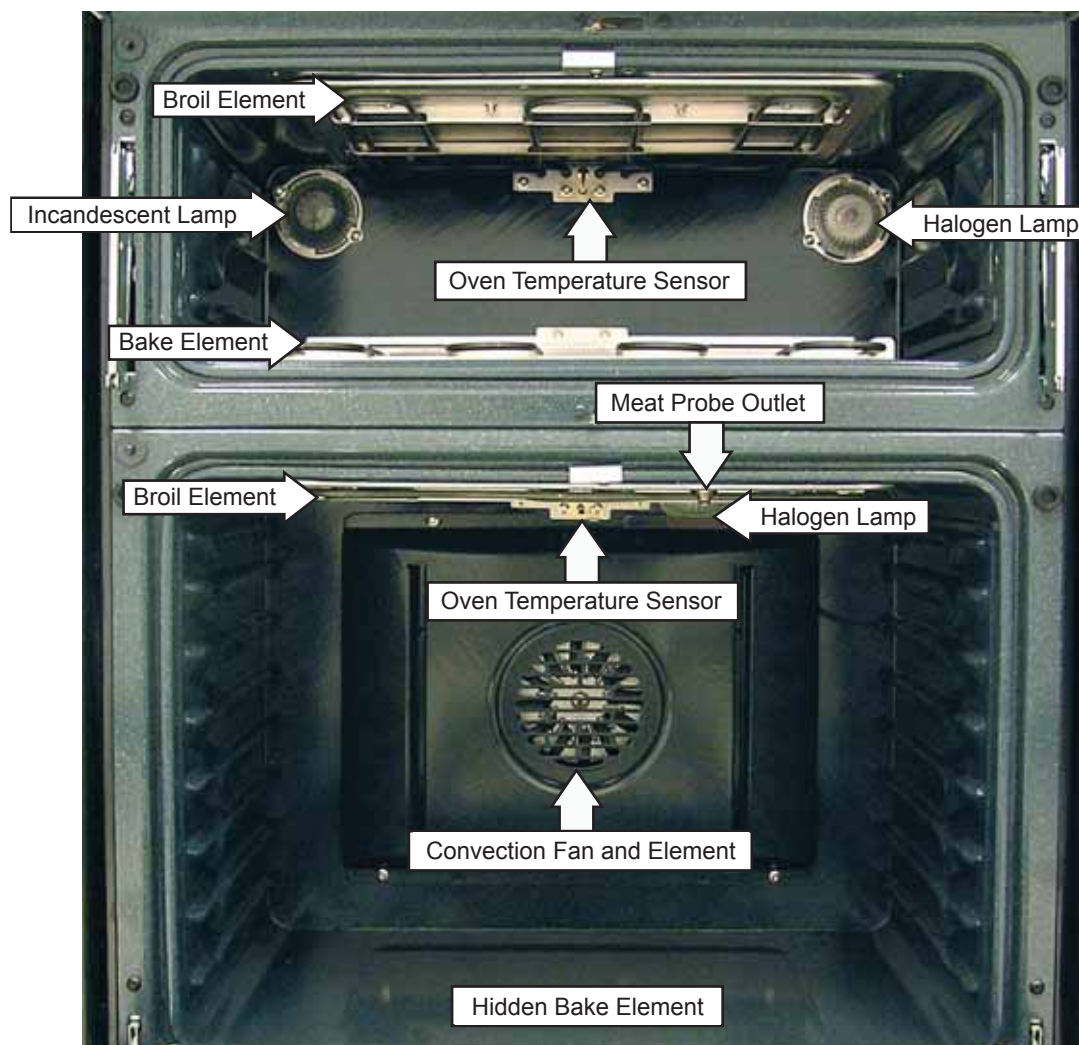


Component Locator Views

Control - Front View

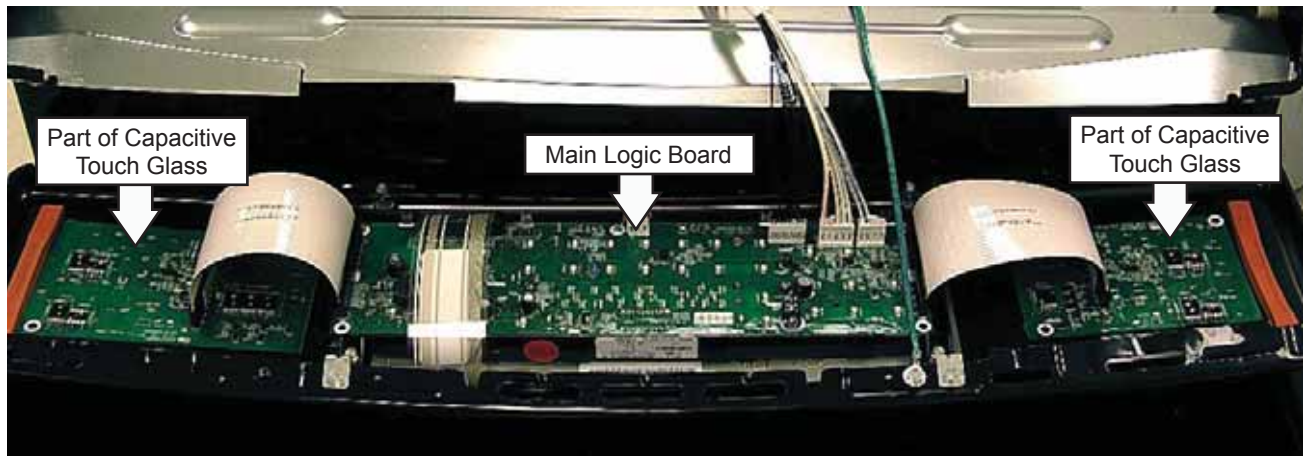


Ovens - Front View



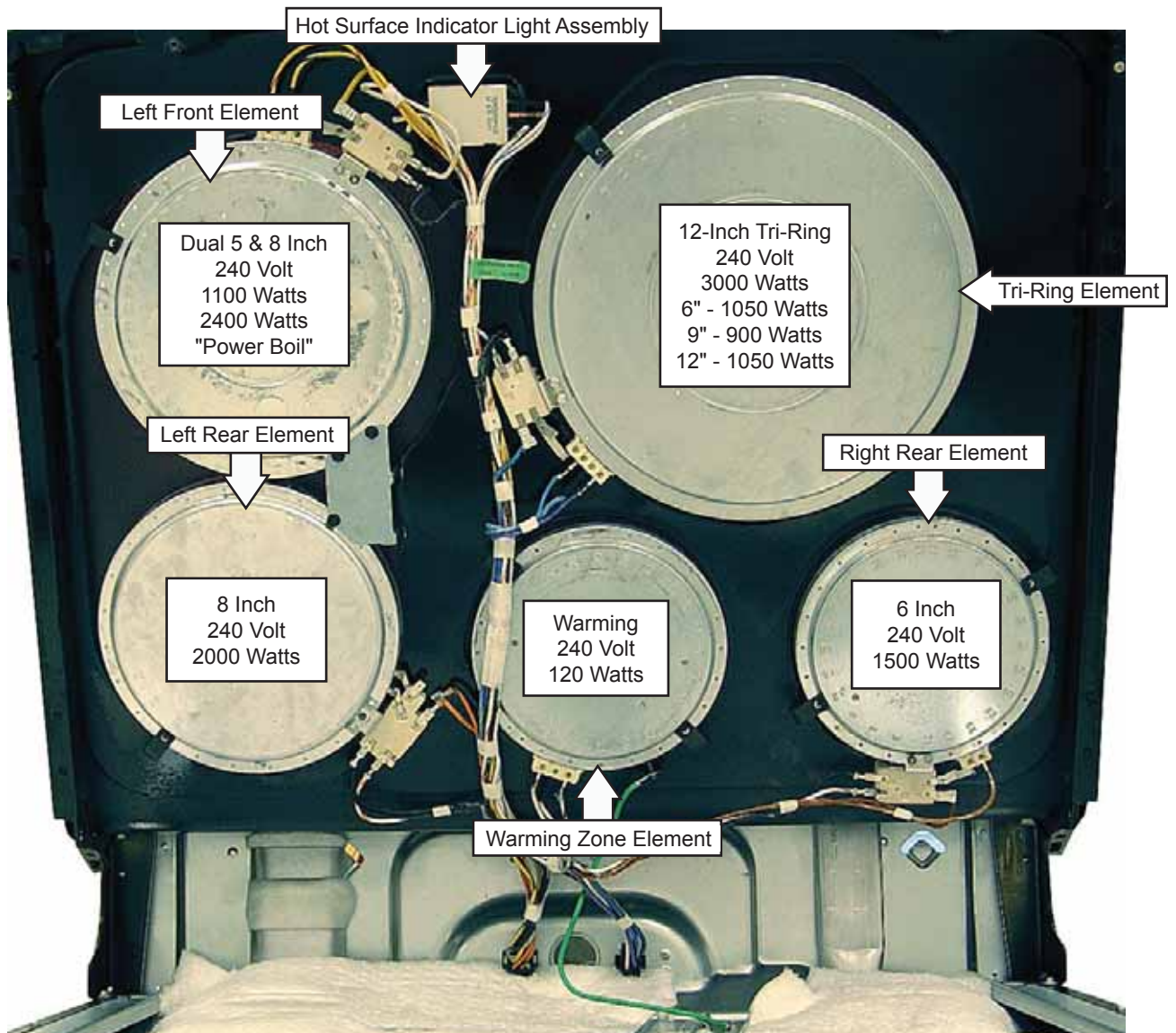
Shown with oven doors removed

Control Boards

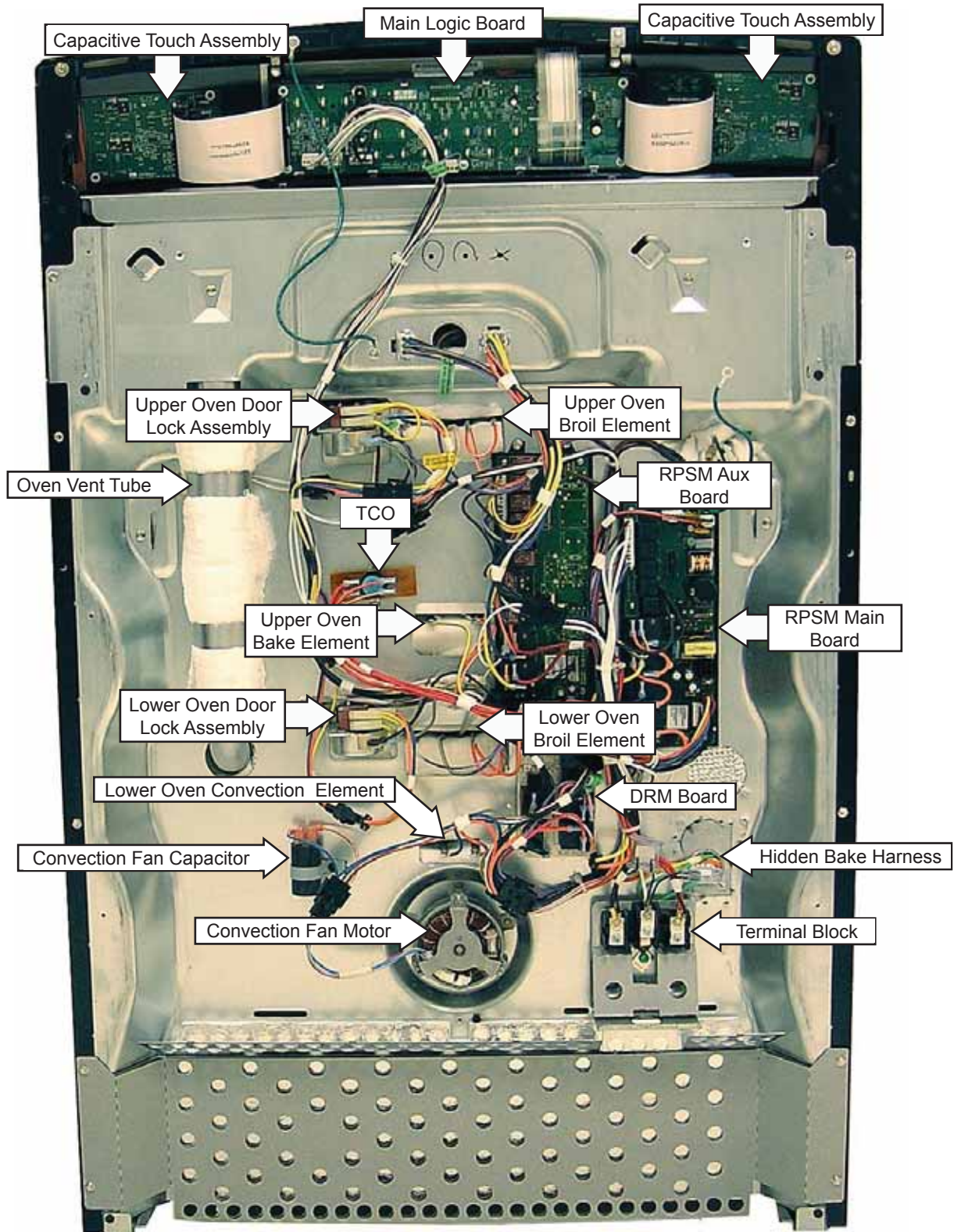


Shown in service position

Main Top

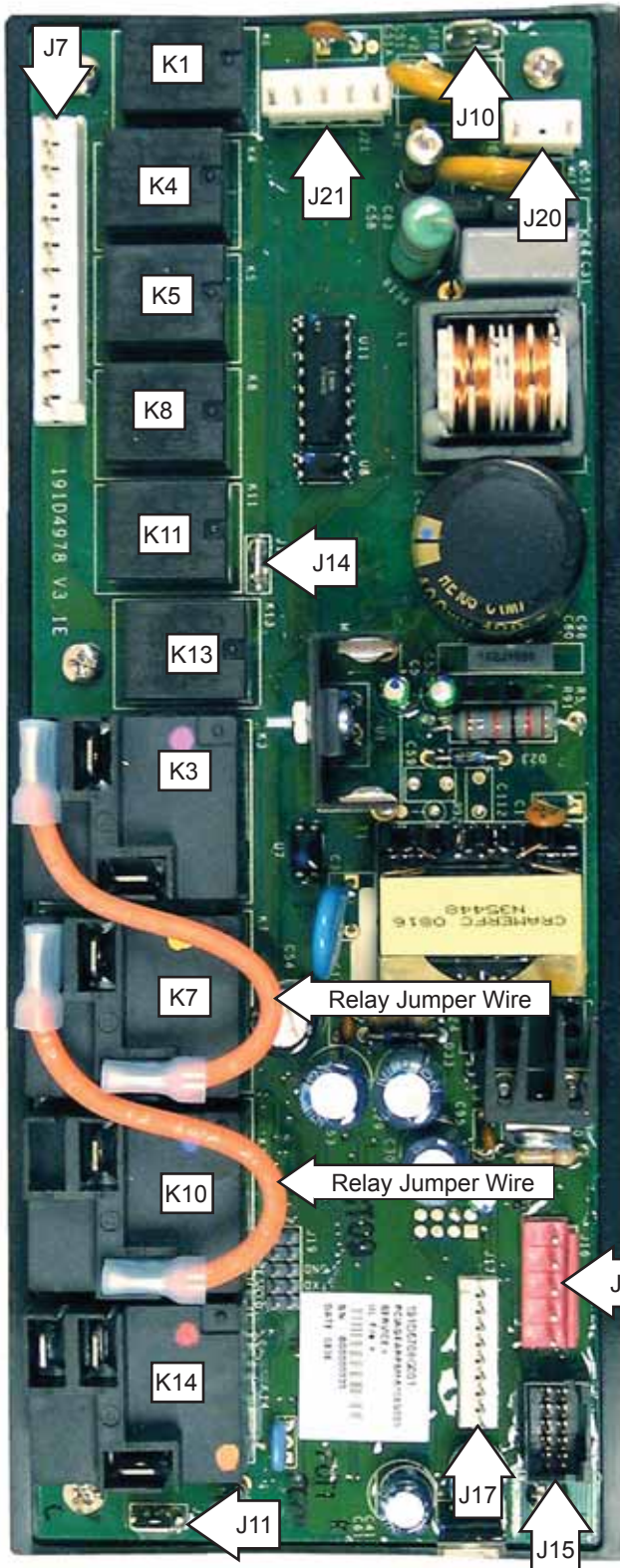


Rear View



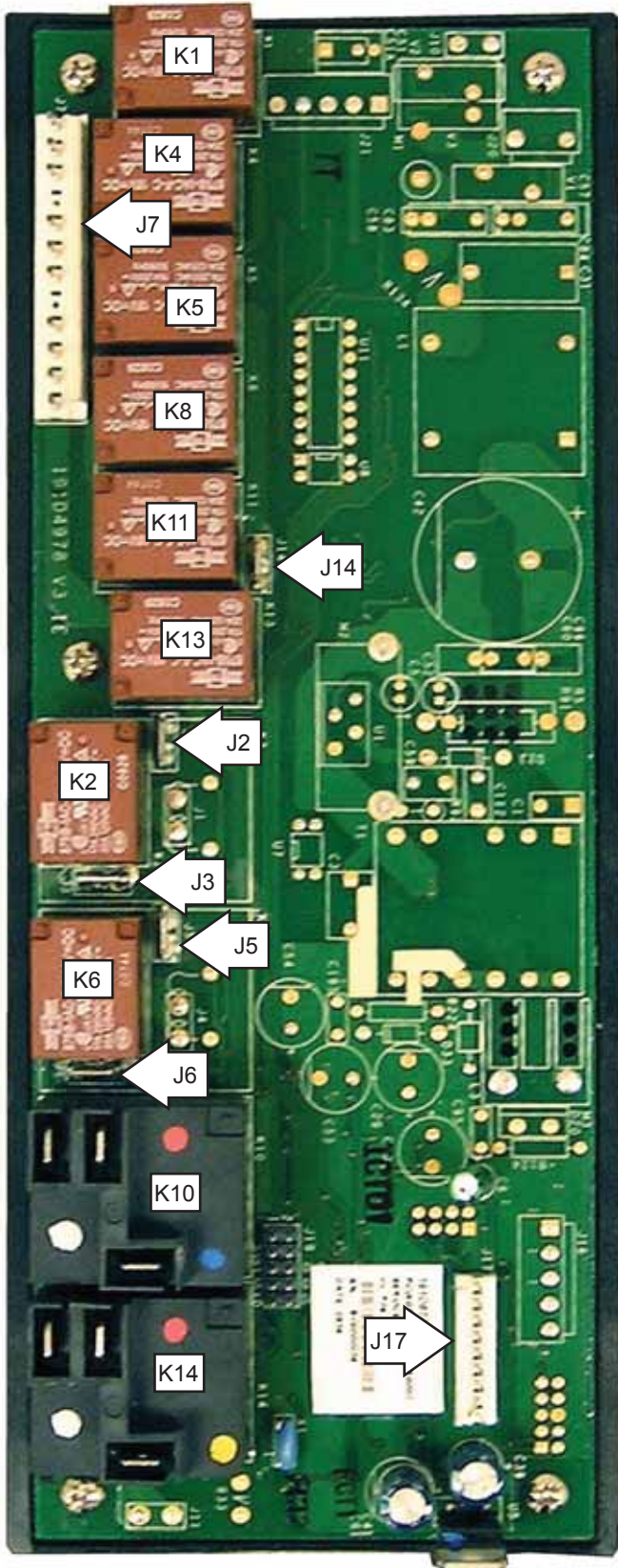
Relay Boards Connector Locator Views

RPSM Main Board



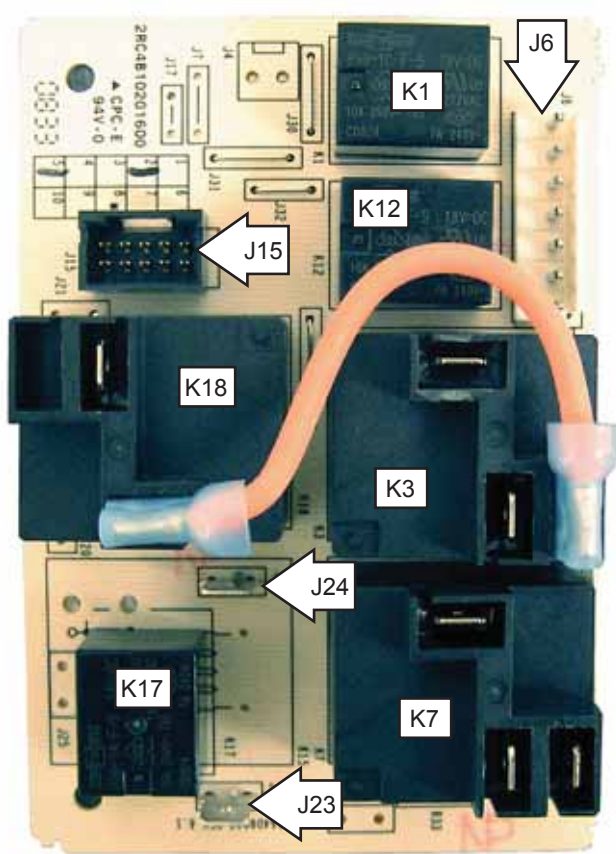
- J7 - Broil Boost (Upper & Lower), Door Lock Motor (Upper), Oven Lights, Door Switches
- J10 - Cabinet Ground
- J11 - Neutral
- J14 - L1
- J15 - Communications
- J16 - Lock Switches
- J17 - Communications
- J20 - L1 & L2
- J21 - Neutral
- K1 - Upper Oven Light
- K3 - Lower Broil, Lower Bake & Convection Elements
- K4 - Lower Oven Light
- K5 - Lower Broil Boost
- K7 - Lower Bake & Convection Elements
- K8 - Not Used
- K10 - Convection Element
- K11 - Upper Broil Boost
- K13 - Upper Door Lock Motor
- K14 - Double Line Break for Lower Bake, Lower Broil, Convection & Lower Broil Boost Elements

RPSM Aux Board



- J2 - RF Inner Element
- J3 - L1
- J5 - LR Element
- J6 - L1
- J7 - RF Center, RF Outer, CR, LF Inner, & LF Outer Elements
- J14 - L1
- J17 - Communications
- K1 - LF Inner Element
- K2 - RF Inner Element
- K4 - LF Outer Element
- K5 - CR Element
- K6 - LR Element
- K8 - RF Center Element
- K10 - Double Line Break for RF & RR Elements
- K11 - RR Element
- K13 - RF Outer Element
- K14 - Double Line Break for CR, LR, & LF Elements

Daughter Relay Board (DRM)



J6 - Convection Fan, L1, &
Lower Door Lock Motor

J15 - Communications

J23 - L1

J24 - Convection Fan

K1 - Convection Fan

K3 - Upper Bake & Upper Broil Elements

K7 - Double Line Break for Upper Bake, Upper
Broil, & Upper Broil Boost Elements

K12 - Lower Door Lock Motor

K17 - Convection Fan

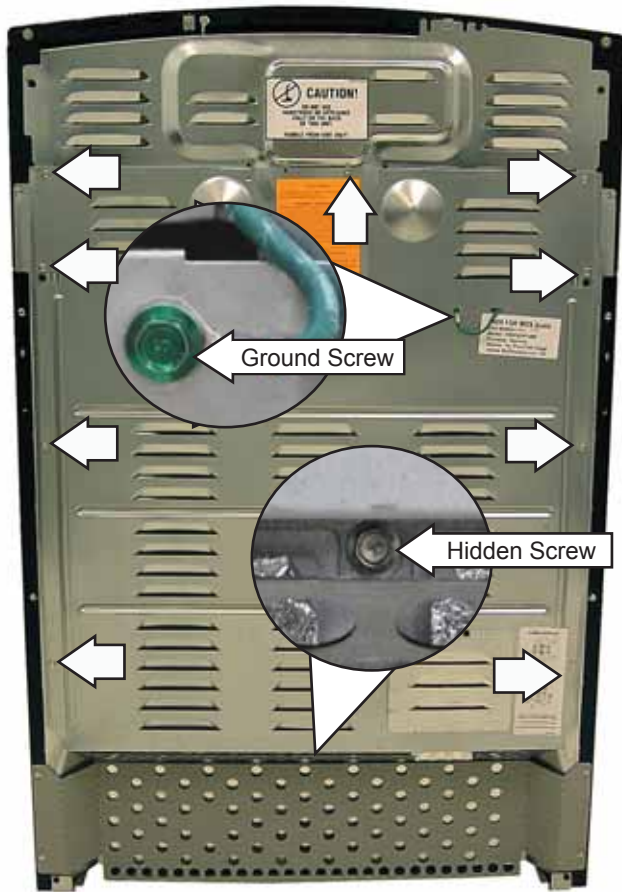
K18 - Upper Bake Element

Oven Components

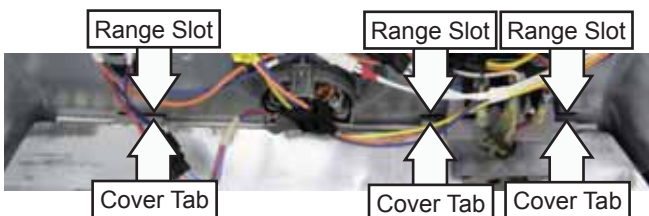
Rear Cover Removal

To remove the rear cover:

1. Disconnect power to the range.
2. Pull the range out from its installation.
3. Remove and capture the hidden ¼-in. hex-head screw from the bottom of the cover.
4. Remove the ¼-in. ground screw and ground wire from the top of the cover.
5. Remove nine ¼-in hex-head screws that attach the panel to the range.



6. Pull the top of the cover away from the range and disengage the 3 cover tabs from the slots near the bottom of the range.



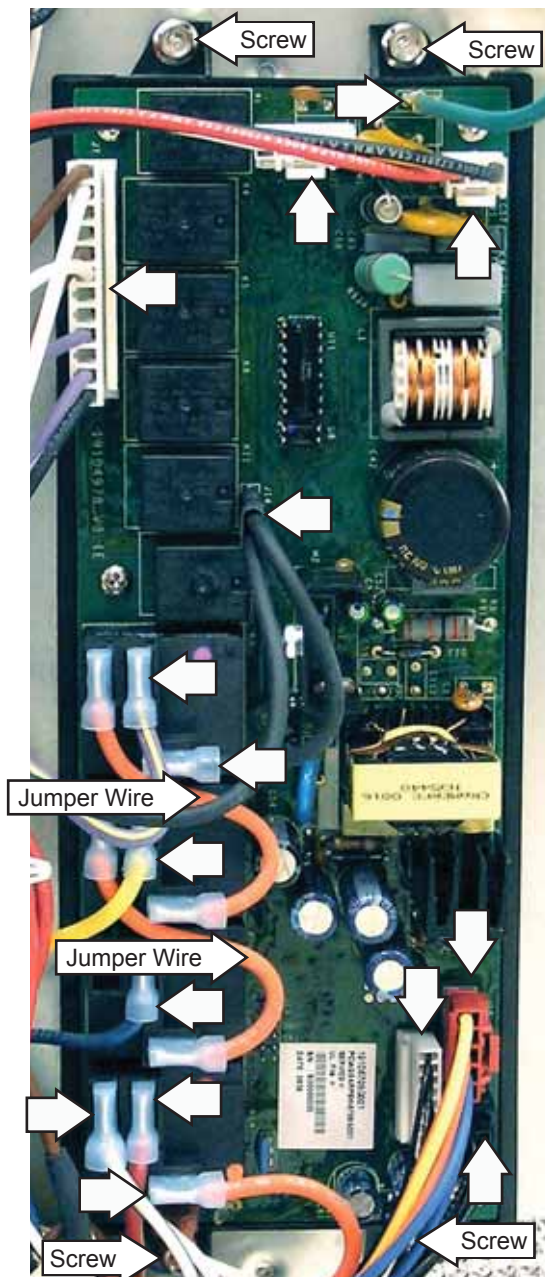
RPSM Main Board

To remove the RPSM main board:

1. Remove the rear cover. (See *Rear Cover Removal*)

Note: In the following step, do not remove the relay jumper wires (orange wires) from the control board.

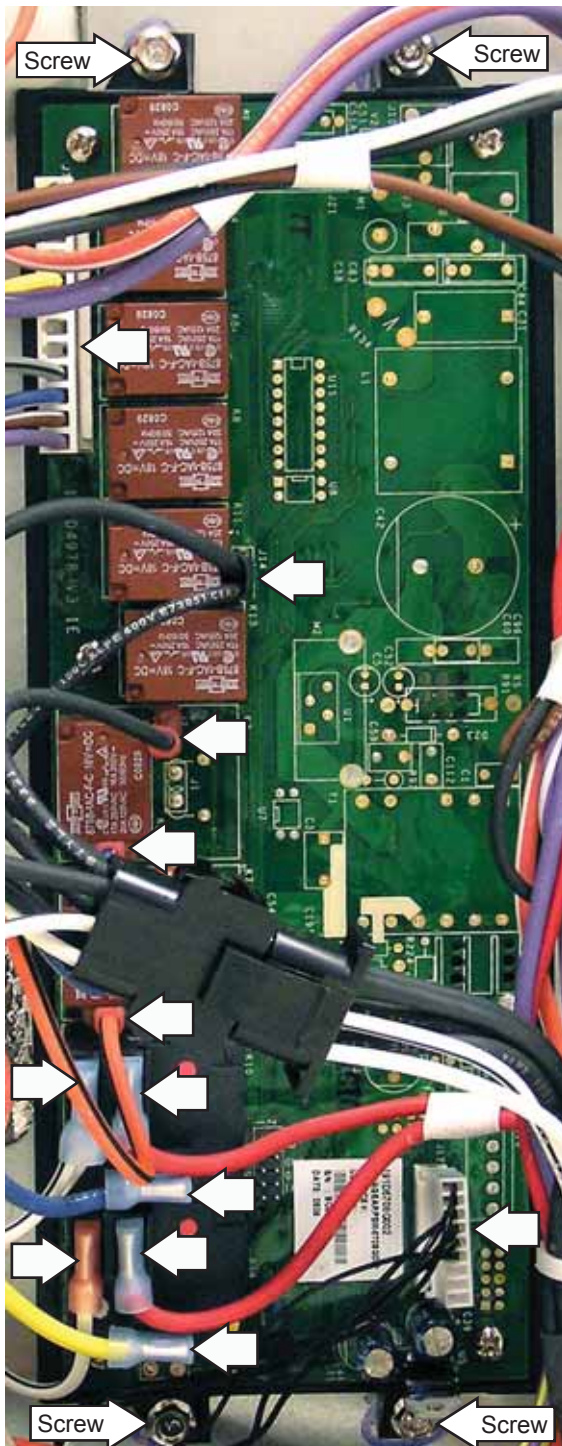
2. Mark and disconnect the control board wiring and wire harnesses.
3. Remove the four ¼-in. hex-head screws that attach the board to the oven.



RPSM Aux Board

To remove the RPSM Aux board:

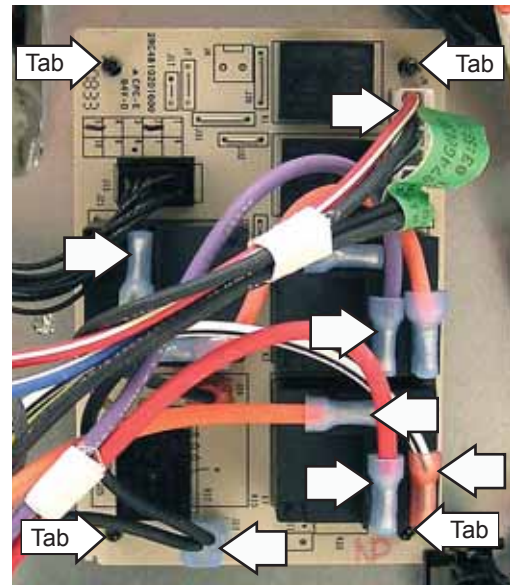
1. Remove the rear cover. (See *Rear Cover Removal*.)
2. Mark and disconnect the control board wiring and wire harnesses.
3. Remove the four ¼-in. hex-head screws that attach the board to the oven.



Daughter Relay Board (DRM)

To remove the DRM board:

1. Remove the rear cover. (See *Rear Cover Removal*.)
2. Mark and disconnect the control board wire harnesses.
3. Squeeze the 4 compression tabs to release the board.



Thermal Cutout (TCO)

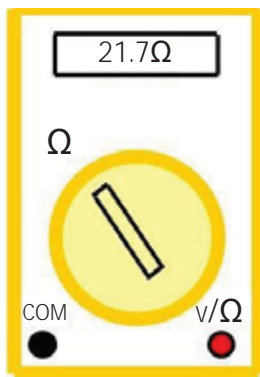
The upper and lower ovens are protected by a TCO mounted on the rear of the cabinet. The TCO will open if temperatures on the rear reach 150°C/302°F. The TCO is a "one-shot" device and is not re-settable. If open, all oven elements will be disabled.



Hidden Bake Element

Before disassembling the range to access the hidden bake element, check the resistance of the element by disconnecting the plug and checking between the orange and yellow wires. The resistance reading of a good element is approximately 21.7Ω .

If the hidden bake element does need to be changed, the procedure is the same as for the previous version of the dual cavity oven.



Control Panel Assembly

Control Panel

The controls for the oven system consist of a key panel touch film on glass assembly and a main logic board with its model select resistor plug located in the control panel.

The controls for the cooktop elements consist of two burner touch boards connected to and working through the main logic board.

The main logic board is connected via the LIN serial wire to the Relay Power Supply Board (RPSM Main) located on the back of the range, along with a second relay board (RPSM Aux) and a smaller Daughter Relay Board (DRM).

There are also RTD oven sensors and motor door lock assemblies with position switches.

The upper and lower ovens are controlled by relays found on the RPSM Main and DRM boards. (See *Wiring Diagram*.)

Cooktop elements are controlled by relays found exclusively on the RPSM Aux Board. (See *Wiring Diagram*.)

No relay boards or line voltages are brought to the control panel.

To remove the control panel:

1. Pull the range out approximately 6 inches from the wall.
2. Remove the five ¼-in. hex-head screws that hold the top of the rear panel to the range.



Rear View

3. Place a protective cover on the main top of the oven.
4. Using a stubby or off-set Phillips-head screwdriver, remove the 2 inverted screws that attach the bottom of the control panel to the range.



5. Grasp the control panel and pull the bottom out, then lift the panel off the top 2 screws.
6. Place the control panel in the service position.



Service Position

Capacitive Touch Glass

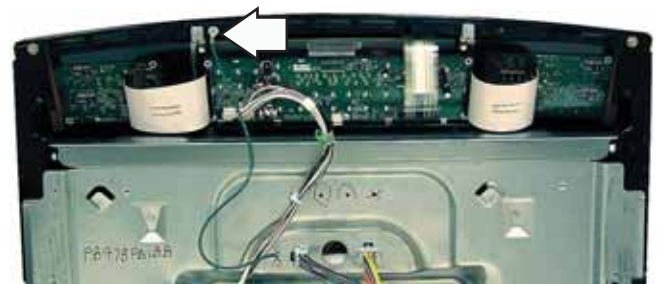
A capacitive touch switch consists of two conductive layers on opposite sides of an insulating material, such as glass.

The 2 conductive layers create a capacitance that decreases when a layer is touched by a human finger.

Interface circuitry is used on a touch switch to convert the capacitance change into a usable switching action to drive logic systems or to switch analog signals.

To remove the capacitive touch glass:

1. Remove the ¼-in. hex-head screw that attaches the ground wire to the oven frame.



- Place the control panel in the service position.
(See *Control Panel*.)
- Remove the main logic board. (See *Main Logic Board*.)
- Remove four ¼-in. hex-head screws that attach the glass to the frame.



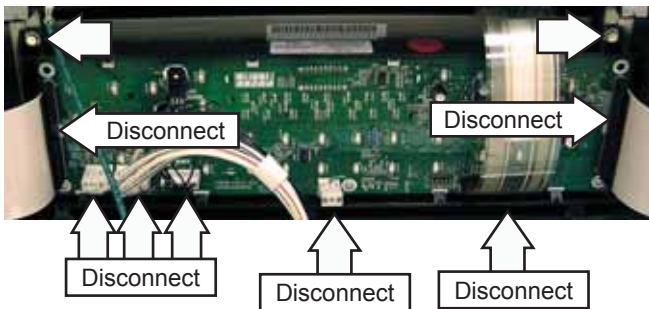
- Lift the glass from the frame.

Main Logic Board

The main logic board is located inside the control panel. The left- and right-side ribbon connectors are replaceable components. The middle ribbon connector is part of the capacitive touch glass.

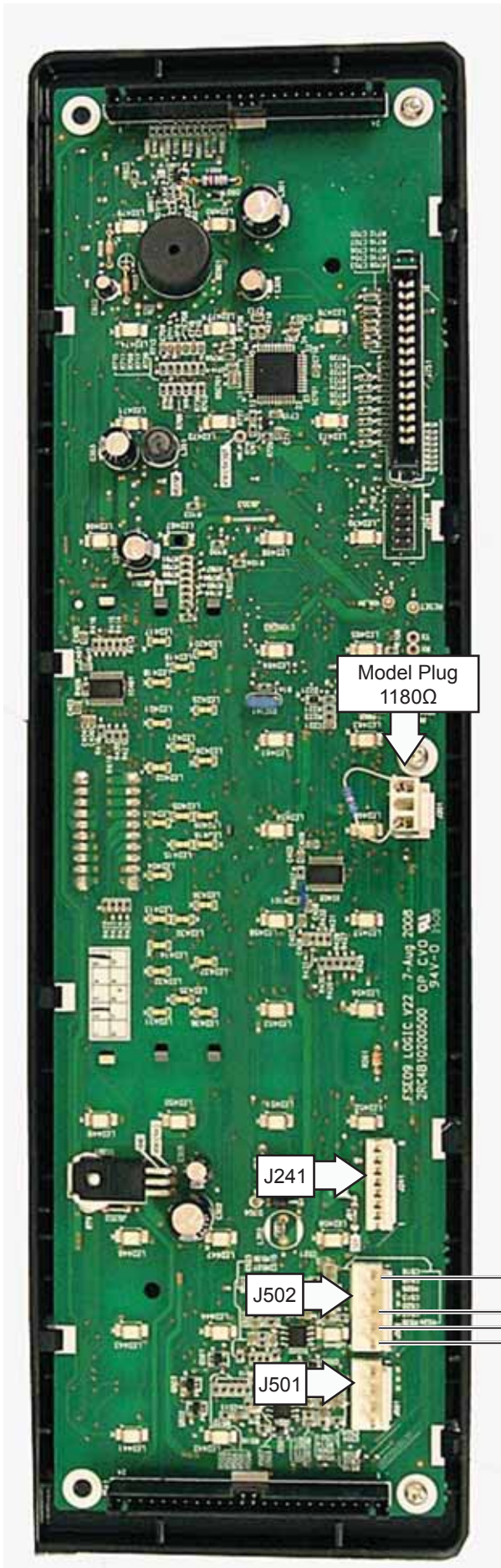
To remove the main logic board:

- Place the control panel in the service position.
(See *Control Panel*.)
- Mark and disconnect the 2 wire harnesses, mode/select plug and 3 ribbon connectors. Remove the two ¼-in. hex-head screws that attach the board to the metal frame.



Note: Make sure to transfer the model select plug to the new board before applying power.

Main Logic Board



J241 - Cooktop and Oven Relay Control Boards (LIN Serial)

J501 - Upper Oven Sensor

J502 - Meat Probe, Lower Oven Sensor

Model Plug
1180Ω

J241

J502

J501

Lower Oven Sensor

Meat Probe

Diagnostics and Service Information

Main Logic Board Failure Codes

F-codes are not shown on the display when they occur. They are stored in eeprom and can be retrieved by pressing the **TIMER ON + CLOCK + UPPER START** pads together. The display then shows F-cd and prompts for an UPPER or LOWER selection (1 is the upper oven and 2 is the lower oven). After an oven is selected, a log is shown. Details of any one of up to 7 stored codes can be recalled by pressing a number pad. Press the **CLEAR/OFF** pad to exit. The F-code log can be erased by pressing the **9** and **0** pads together while the log is showing. (Only the log displayed is erased/cleared.)

Note: For the first 3 minutes after power on, the F-code will show on the display.

F-CODE	MEANING	CORRECTION
F100	LED error on Burner Touch Board (when equipped)	LEDs on Burner Touch Board operating properly. Harness/header pins to Burner Touch Board.
F20x	Temperature inside oven cavity exceeds 600°F with door unlocked	a) Welded relay contacts. b) High resistance in sensor connectors especially at sensor in rear.
F21x	Temperature inside oven cavity exceeds 900°F with door unlocked	
F30x	Shorted oven sensor (under 950 ohms)	a) Disconnect sensor harness from control. Measure resistance. Should be ~1100 ohms at room temperature with 2 ohms per degree change. b) Look for damaged harness terminals/pins if resistance is OK.
F31x	Open oven sensor (over 2950 ohms)	
F32x	Temperature measurement circuit redundancy check within Main Logic Board bad	Replace board.
F33x		
F40x	Meat probe or jack shorted	a) Probe should be ~10K ohms at room temperature. b) Disconnect jack harness from control. Check for shorted jack or harness. Center pin may be touching insulation retainer.
F600	LIN comm error within Main Logic Board	a) Check for shorted J241 pin 2. b) Replace board.
F610	LIN comm error to slaves, such as RPSM	a) Check LIN wire in harness. b) Replace RPSM board.
F611	LIN comm error to slaves, such as RPSM	a) Check LIN wire in harness. b) Replace RPSM board. c) Replace Main Logic Board.
F612	Line power error detected by RPSM	a) Check power line for dropouts. b) Replace RPSM board.
F620	LIN comm error to/from RPSM Aux Board (when equipped)	Replace Aux board, especially if Main Board relays still function.
F621	LIN comm error to/from RPSM Aux Board (when equipped)	Replace Aux board, especially if Main Board relays still function.

(Continued Next Page)

F-CODE	MEANING	CORRECTION
F622	Line power error detected by RPSM	a) Check power line for dropouts. b) Replace RPSM board.
F70x	CLEAR/OFF touch pad error	a) Touch film has a short. b) Main Logic Board fault.
F710	Any other touch pad error	a) Touch film has a short. b) Main Logic Board fault.
F720	Main Logic Board internal touch key chip signal error	Replace Main Logic Board.
F730		
F740		
F750		
F760		
F770		
F780	60 Hz square wave not getting to touch key chip on Main Logic Board	a) Harness to J241 pin 4 open. b) Replace Main Logic Board if voltage is OK to J241 pin 4. OR c) Replace Main RPSM Board if no voltage at RPSM J17 pin 9.
F790	Main Logic Board internal touch key chip signal error	Replace Main Logic Board.
F7A0	Main Logic Board internal touch key chip signal error	Replace Main Logic Board.
F7B0	Main Logic Board internal touch key chip signal error	Replace Main Logic Board.
F800	Main Logic Board memory error	Replace Main Logic Board.
F810	Main Logic Board memory error	Replace Main Logic Board.
F820	Main Logic Board EEPROM memory error	Replace Main Logic Board.
F90x	Door Lock Unlock-Home signal became untrue during cooking	a) Lock motor cam switch faulty/loose. b) Harness from lock motor to RPSM J16 open.
F91x	Door Lock Unlock-Home signal became untrue during clean	Note: Control will open/close relay several times trying to "jog" the motor.
F92x	Both the Lock-Home and Unlock-Home switches are closed simultaneously	
		a) Lock motor cam switch is stuck closed. Replace assembly. b) Replace Main RPSM Board.

Key Panel Test

Touch each pad. Pads should light in response, except CLEAR/OFF and COOKTOP Pads. Each pad must be individually tested. Number pads, +/-, etc., respond only after a function is selected.

LIN Test

Press the **OVEN LIGHT** pad. Corresponding relay(s) should click and oven lamps should respond. If successful, LIN bus is not the cause of nonworking elements.

Test Mode

The entry to the test mode is available for 3 min. after power up by pressing **1** and **5** pads together. The display will switch to "tEST".

Pressing the **CLEAR/OFF** pad exits the test mode.

When a test feature is selected, it remains for 10 seconds, then returns to the "tEST" standby.

Power On -> Push 1 + 5 key

Key	Normal Ttest Mode	
	Display FOR 10 SEC	Relay(s)
U START	-	Upper Conv Fan On 10 sec
L START	-	Lower Conv Fan On 10 sec
U BAKE	-	Upper Bake On with Upper DLB On 10 sec
L BAKE	-	Lower Bake On with Lower DLB On 10 sec
L CONV	-	Lower Conv On with Lower DLB On 10 sec
L PROBE	Upper/Lower Probe Temp	-
U BROIL	-	Upper Broil1 On with Upper DLB On 10 sec
L BROIL	-	Lower Broil1 On with Lower DLB On 10 sec
U CLEAN	Upper/Lower Door State	Upper Door On
L CLEAN	Upper/Lower Door State	Lower Door On
U COOK TIME	Upper/Lower Oven Sensor Temp and ROM version	-
L COOK TIME	Upper/Lower Oven Sensor Temp and ROM version	-
U DELAY TIME	Model ID and EEPROM Checksum	Upper Conv Fan Direction On with Upper Conv Fan On 10 sec
L DELAY TIME	Model ID and EEPROM Checksum	Lower Conv Fan Direction On with Lower Conv Fan On 10 sec
U OVEN LIGHT	-	Upper Oven Light On 10 sec
CLOCK	All WING-L and WING R LEDs while held.	-
TIMER ON	Mini Light Box and 10 digits all LEDs	-
TIMER OFF	all WHITE key LEDS	-
LOCKOUT	-	Energize Cooktop Lock relay (for non wing models) 10 sec
10KEY 1	1	UBroil2 relay w/DLB for 10 sec
10KEY 2	2	LBroil2 relay w/ DLB for 10 sec
10KEY 3	AC input voltage from RPSM J20	-
10KEY 4	AC inputs on RPSM J21. 5 bits.	-
10KEY 5	Buzzer level HI --> Md --> Lo	-
10KEY 6	6	-
10KEY 7	7	-
10KEY 8	Lin Slave1(RPSM) Program Version	-
10KEY 9	Lin Slave4(Aux) Program Version	-
RF ON/OFF	RF - g seg	Cooktop DLB1 + RF-M + RF-I + RF-O for 10 sec
RF-	RF - L	Cooktop DLB1 + RF-I for 10 sec
RF+	RF - H	Cooktop DLB1 + RF-I + RF-M for 10 sec
RF SIZE/SIMMER	size LEDs x 3	-
RR ON/OFF	RR - g seg	Cooktop DLB2 only for 10 sec
RR-	RR - L	Cooktop DLB2+ RR for 10 sec
RR+	RR - H	-
LF ON/OFF	LF - g seg	Cooktop DLB2 + LF-I + LF-O for 10 sec
LF-	LF - L	Cooktop DLB2 + LF-I for 10 sec
LF+	LF - H	Cooktop DLB2 only for 10 sec
LF SIZE/SIMMER	1/2 in LF digit	-
LR ON/OFF	LR - g seg	Cooktop DLB2 only for 10 sec
LR-	LR - L	Cooktop DLB2 + LR for 10 sec
LR+	LR - H	Cooktop ALL RELAYS ON 30 sec
LR MELT	1/2 in LR digit	-
WZ ON/OFF	WZ - g seg	Cooktop DLB2 + CR for 10 sec
WZ SELECT	zero (0) in WZ digit	-

Oven Sensors

The current software version of the main logic board will cause the cooktop to become inoperative if either of the sensors open.

If either sensor opens and the fault code sets to epprom memory (this takes about 3 min.), the cooktop will become inoperative until the sensor is replaced.

J501	Upper Oven Sensor	Pins 1, 2 (white/black)	room temp 1080 ohms clean temp 2650 ohms
J502	Lower Oven Sensor	Pins 1, 3 (white/red)	room temp 1080 ohms clean temp 2650 ohms

Relay Board Voltages

Legend for Ladder Wiring Diagram

Relays and connectors that begin with	are located on
MK, MJ	RPSM MAIN board
DK, DJ	Daughter relay board
AK, AJ	RPSM AUX board

NOTE: Pin 1 on RPSM boards has a square solder pad.

Upper Oven

	DK3-NO to L2	DK3-NC to L2	DK18-COM to L2	DK18-NO to L2	MJ7-2 to L2	DK7-COM to L1	MJ7-1 to N	MJ7-12 to L1
Standby	0	240VAC	240VAC	0	0	120VAC	0	0
Broil, Upper*	240VAC	0	0	0	240VAC	240VAC	0	-
Bake, Upper*	0	240VAC	240VAC	240VAC	240VAC	240VAC	0	-
Door Motor, Upper	0	240VAC	240VAC	0	0	120VAC	120VAC**	-
Oven Lamp, Upper	-	-	-	-	-	-	-	120VAC**

*When calling for heat
**When motor or light is on

Lower Oven

	MK3-NO to L2	MK3-NC to L2	MK7-COM to L2	MK7-NO to L2	MK7-NC to L2	MK10-COM to L2	MK10-NO to L2	MJ7-4 to L2	MK14-COM to L1	DJ-24 to N	DJ6-1 to N	DJ6-3 to N	MJ7-8 to L1	DJ6-7 to N
Standby	0	240VAC	240VAC	0	240VAC	240VAC	0	0	120VAC	0	0	0	0	0
Broil, Lower*	240VAC	0	0	0	0	0	0	240VAC	240VAC	0	0	0	-	0
Bake, Lower*	0	240VAC	240VAC	240VAC	0	0	0	240VAC	240VAC	0	0	0	-	0
Convect, Lower*	0	240VAC	240VAC	0	240VAC	240VAC	240VAC	240VAC	240VAC	See Convect Fan.			-	0
Conv Fan CW	See Convect Element.									120VAC	120VAC	0	-	0
Conv Fan CCW	See Convect Element.									120VAC	0	120VAC	-	0
Oven Lamp, Lower	-	-	-	-	-	-	-	-	-	-	-	-	120VAC**	0
Door Motor, Lower	0	240VAC	240VAC	0	240VAC	240VAC	0	0	120VAC	0	0	0	-	120VAC**

*When calling for heat
**When motor or light is on

Cooktop Voltage Table

	AK2-COM (J3) to L2	AKB-NO (J7-3) to L2	AK13-NO (J7-1) to L2	AK11-NO (J7-2) to L2	AK5-NO (J7-4) to L2	AK6-COM (J6) to L2	AK1-NO (J7-12) to L2	AK4-NO (J7-8) to L2	AK10-COM to L1	AK14-COM to L1
Standby	0	0	0	0	0	0	0	0	120VAC	120VAC
Only RF, all rings*	240VAC	240VAC	240VAC	0	0	0	0	0	240VAC	120VAC
Only RR*	0	0	0	240VAC	0	0	0	0	240VAC	120VAC
Only LF, all rings*	0	0	0	0	0	0	240VAC	240VAC	120VAC	240VAC
Only LR	0	0	0	0	0	240VAC	0	0	120VAC	240VAC
Only Center*	0	0	0	0	240VAC	0	0	0	120VAC	240VAC

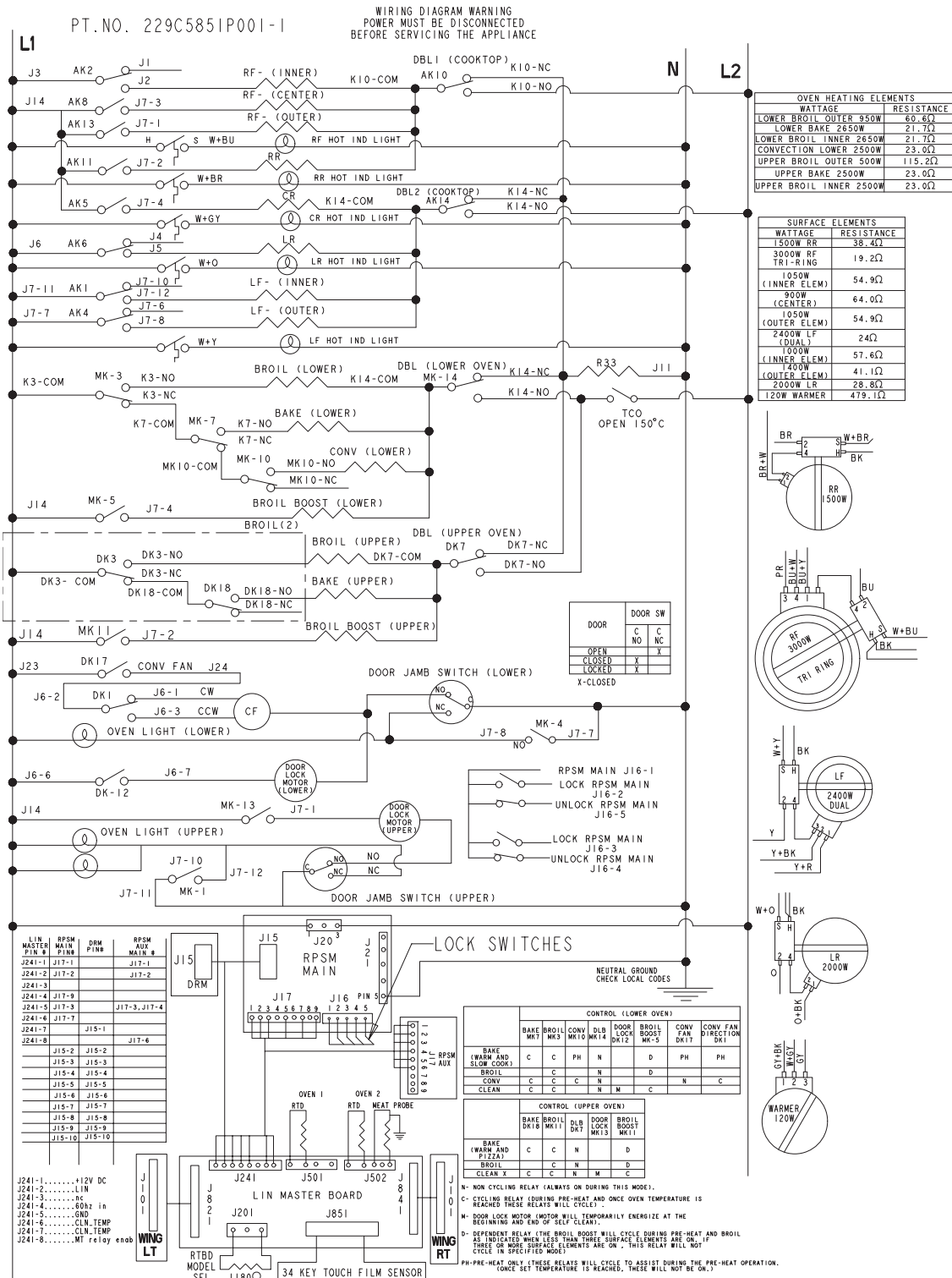
*Use HIGH setting to test.

Schematics and Wiring Diagrams

WARNING: Disconnect electrical power before servicing.

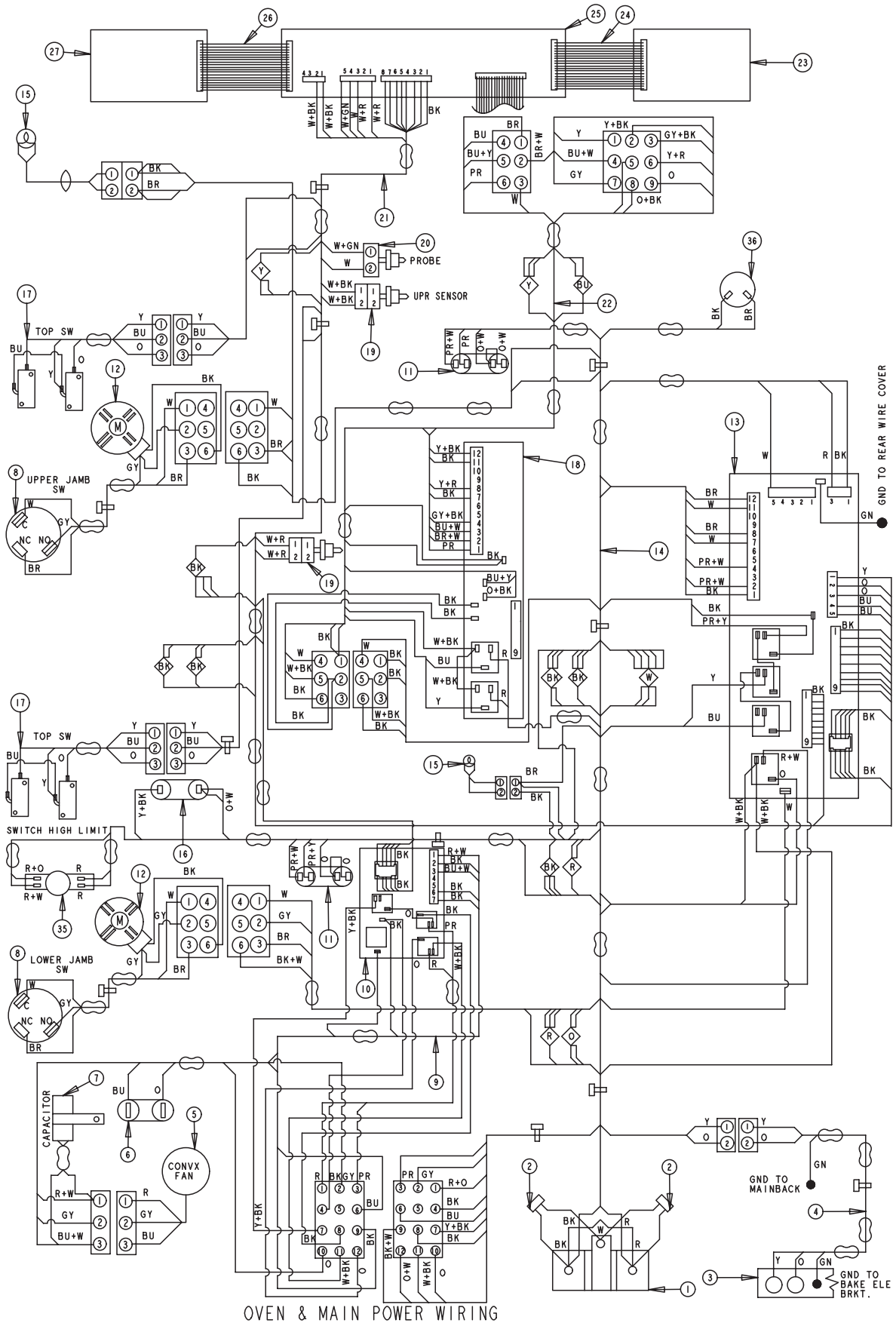
Caution: Label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify operation after servicing.

Wiring Diagram

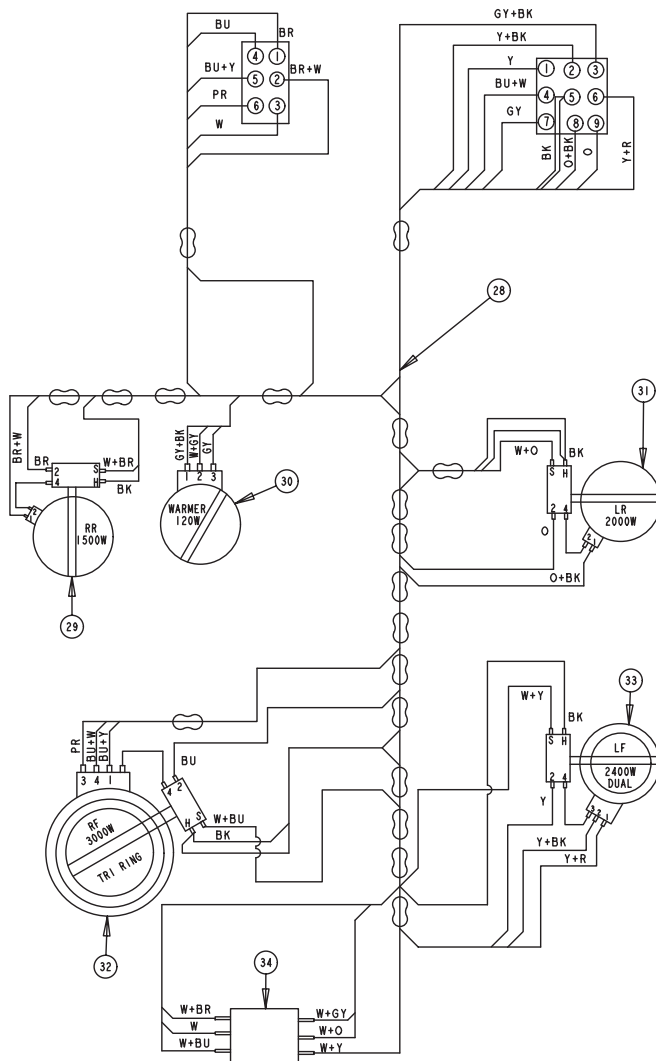
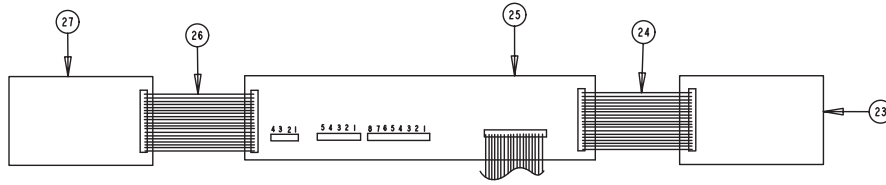


(Continued Next Page)

Oven and Main Power Wiring



Cooktop Wiring



36	LAMP INCANDESCENT	1
35	SWITCH HIGH LIMIT	1
34	MODULE LIGHT INDICATOR	1
33	ELEMENT SURFACE	1
32	ELEMENT SURFACE 12"	1
31	ELEMENT SURFACE	1
30	ELEMENT SURFACE WWR	1
29	ELEMENT SURFACE 6"	1
28	HARNESS WIRE COOKTOP	1
27	BOARD MAINTOP CNTRL (RT)	1
26	HARNESS WIRE INF RT	1
25	UI CONTROL	1
24	HARNESS WIRE INF LT	1
23	BOARD MAINTOP CNTRL (LT)	1
22	HARNESS WIRE INFINITE	1
21	HARNESS WIRE UI COM	1
20	PROBE MEAT ASM	1
19	SENSOR ASM	2
18	AUX BOARD	1
17	HARNESS WIRE SENSOR	2
16	ELEMENT BAKE	1
15	LAMP HALOGEN	2
14	HARNESS WIRE MAIN	1
13	RPSM BOARD	1
12	LOCK MOTOR	2
11	ELEMENT BROIL	2
10	DRM BOARD	1
9	HARNESS WIRE DRM	1
8	SWITCH JAMB	2
7	CAPACITOR	1
6	ELEMENT CONVX	1
5	CONVX FAN	1
4	HARNESS WIRE HIDDEN BAKE	1
3	ELEMENT HIDDEN BAKE	1
2	CAPACITOR	2
1	HOUSING POWER RING	1
I.D	DESCRIPTION	QTY

* NOT ALL PARTS ARE CATALOGUED

COOKTOP WIRING

Warranty



All warranty service provided by our Factory Service Centers, or an authorized Customer Care® technician. To schedule service, visit us on-line at GEAppliances.com, or call 800.GE.CARES (800.432.2737). Please have serial number and model number available when calling for service.

Staple your receipt here.
Proof of the original purchase date is needed to obtain service under the warranty.

For The Period Of: GE Will Provide:

One Year

From the date of the original purchase

Any part of the range which fails due to a defect in materials or workmanship.

During this **limited one-year warranty**, GE will also provide, **free of charge**, all labor and in-home service to replace the defective part.

What GE Will Not Cover:

- Service trips to your home to teach you how to use the product.
- Improper installation, delivery or maintenance.
- Failure of the product if it is abused, misused, or used for other than the intended purpose or used commercially.
- Damage to the glass cooktop caused by use of cleaners other than the recommended cleaning creams and pads.
- Damage to the glass cooktop caused by hardened spills of sugary materials or melted plastic that are not cleaned according to the directions in the Owner's Manual.
- Replacement of house fuses or resetting of circuit breakers.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.
- Damage caused after delivery.
- Product not accessible to provide required service.

EXCLUSION OF IMPLIED WARRANTIES—Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. If the product is located in an area where service by a GE Authorized Servicer is not available, you may be responsible for a trip charge or you may be required to bring the product to an Authorized GE Service location for service. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company. Louisville, KY 40225