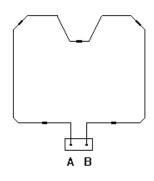


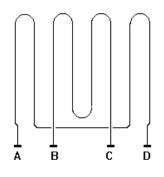


VIKING PREFERRED SERVICE TECH – NOTES BUILT – IN ELECTRIC WALL OVENS

ELECTRICAL REQUIREMENTS				
Description	30" Wide Single Oven	30" Wide Double Oven		
Electrical Requirements	4 – Wire ground, 240 – 208 / 120 VAC / 60 Hz, 40 amp electrical connection. Unit is equipped with No. 10 ground wire in conduit. Should be fused separately			
Maximum Amp Usage	240 – 18.9 Amps 208 – 14.2 Amps	240 – 31.8 Amps 208 – 23.9 Amps		
Broil Rating	240 VoltsMaxi Broil 8 Pass3000 WattsMini Broil 4 Pass1250 Watts	208 Volts 2250 Watts 940 Watts		
Bake Rating	240 Volts – 2935 Watts	208 Volts – 2205 Watts		
Convection Cook Rating	240 Volts – 2200 Watts	208 Volts - 1650 Watts		

VOLTAGE and RESISTANCE READINGS





BROIL ELEMENT

"A" to "D" (Outside Element) 32.6 Ohms 50VAC during Bake and Convection Bake 240VAC during Maxi Broil. 240VAC during Convection Broil 240VAC during Self-Clean
"B" to "C" (inside element) 45.2 Ohms
"B" to "C" 70VAC during Mini Broil / Convection Bake 240 VAC during Mini Broil 240VAC during Maxi Broil 240VAC during Convection Broil 240VAC during Convection Broil 240VAC during Self-Clean

BAKE ELEMENT:

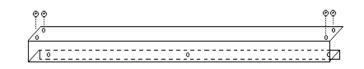
"A' to "B" 21.1 Ohms

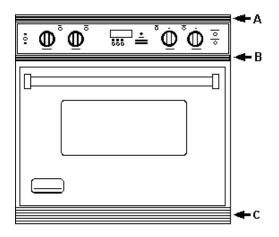
"A" to "B" 240 Volts during Bake and Convection Bake.

CONVECTION ELEMENT

"A" to "B" 26 Ohms "A" to "B" 240VAC during Convection Cook







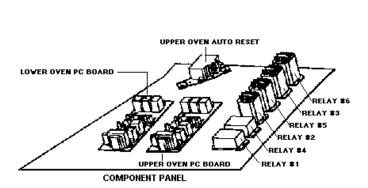


Illustration #1

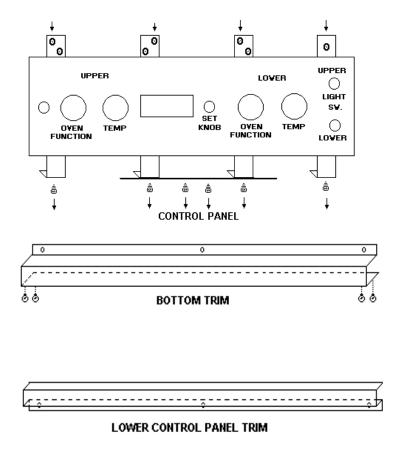
TO GAIN ACCESS TO THE ELECTRIC AND ELECTRONIC COMPONENTS:

Remove the **Top Trim** (A). Two screws at each corner attaching the top trim to the side trims and three screws along the bottom of the trim piece. Remove the **Lower Control Panel Trim** (B). Three Screws along the bottom of the trim piece behind the oven door.

Remove the **Control Panel.** Four screws at the top and six screws across the bottom (see drawing of the control panel.) Pull the **Control Panel** carefully forward and tilt down. Being careful not to disconnect wires attached to the components on the reverse of the panel.

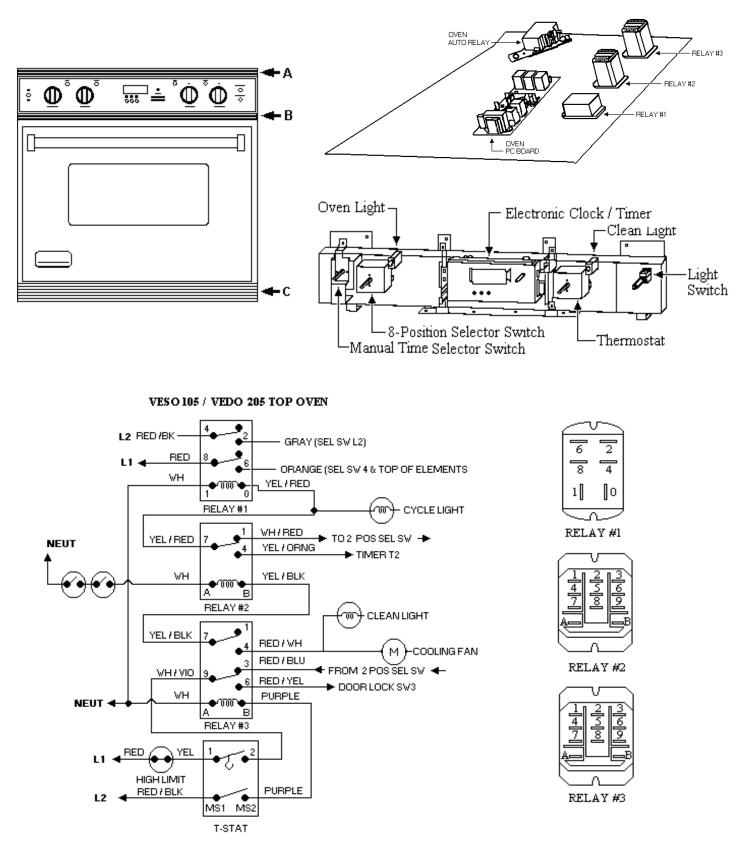
The **Component Panel** is now accessible. Pull the **Component Panel** forward to release the panel from the slide. Lift the **Component Panel** up to service the upper **Upper Self Cleaning Latch** and components located on the latch mechanism.

The **Bottom Trim** (C) is removed to make the vertical **Door Adjustment.** Remove the two screws from each corner attaching the **Bottom Trim** to the **Side Trim** pieces. Remove the three screws across the top of the trim piece located beneath the door.



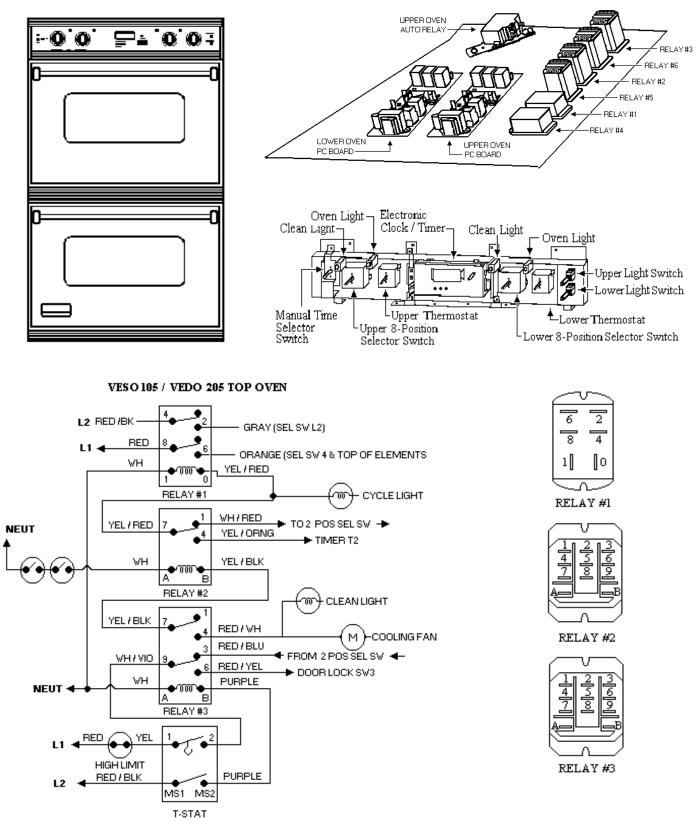
VGSO105 SINGLE SELF-CLEAN WALL OVEN

Relay location and wiring connections



VEDO DOUBLE SELF-CLEAN WALL OVEN

Relay location and wiring connections

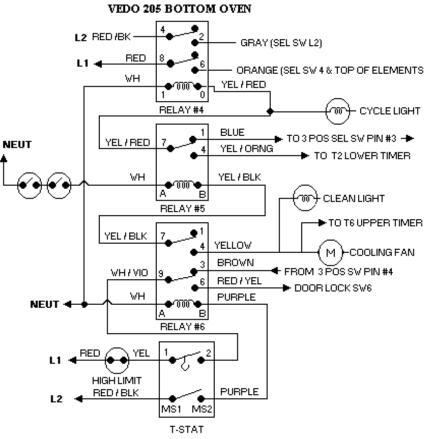


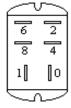
-TECH -- NOTES-

VEDO DOUBLE SELF-CLEAN WALL OVEN

Relay location and wiring connections

VEDO 205 BOTTOM OVEN

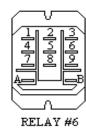




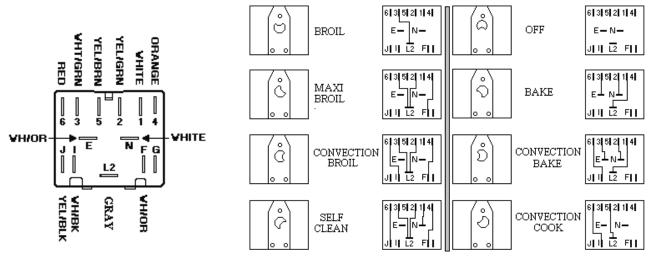




RELAY #5



8 Position Selector Switch



DOOR LOCK CONTROL / TIMER

Function: The Door Lock Control / Timer is activated by the line voltage at the "SEL" contact.

Voltage Readings: Measured with Door Open.

120VAC T4 Т3 0VAC Т2 0VAC T1 0VAC Voltage: Measured with Door locked. T4 120VAC T3 120VAC 120VAC T2 VC -- 4VDC to //// Sensor 3 -- 3VDC SW2 closed in self-clean (locked)

```
Sensor 3 - 3YDC SW2 closed in self-clean (locked) 

Sensor 4 - 4YDC SW1 closed with self-clean (unlocked) 

MI - 120VAC lock motor supply voltage

(3)VAC in locked position.)

LS2 - 120VAC (unlocked) -- 0VAC (locked)

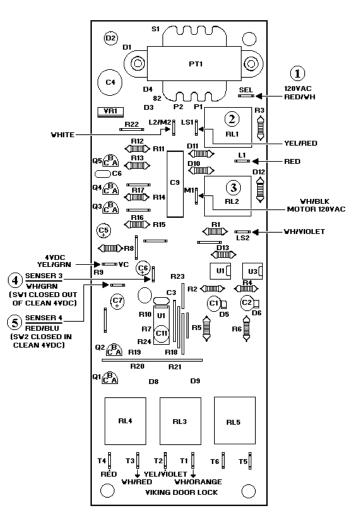
LI - 120VAC (unlocked) -- 0VAC (locked)

L2/M2 - 120VAC (unlocked) -- 0VAC (locked)

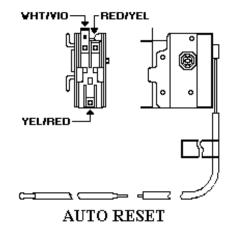
LS1 - 120VAC (unlocked) -- 0VAC (locked)

LS1 - 120VAC supply
```

CHASSIS GROUND PC BOARD GROUND

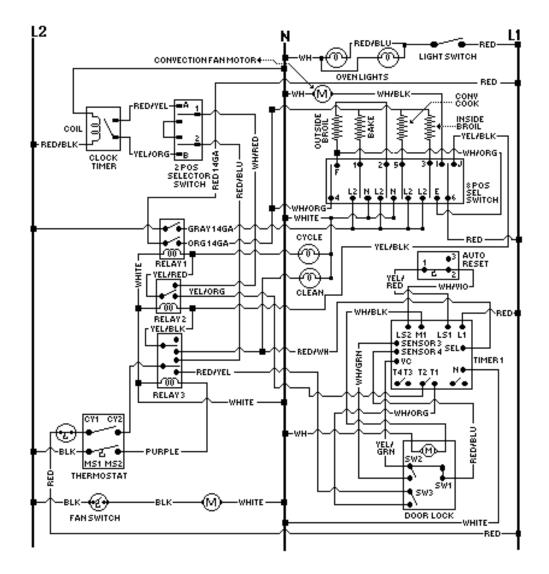


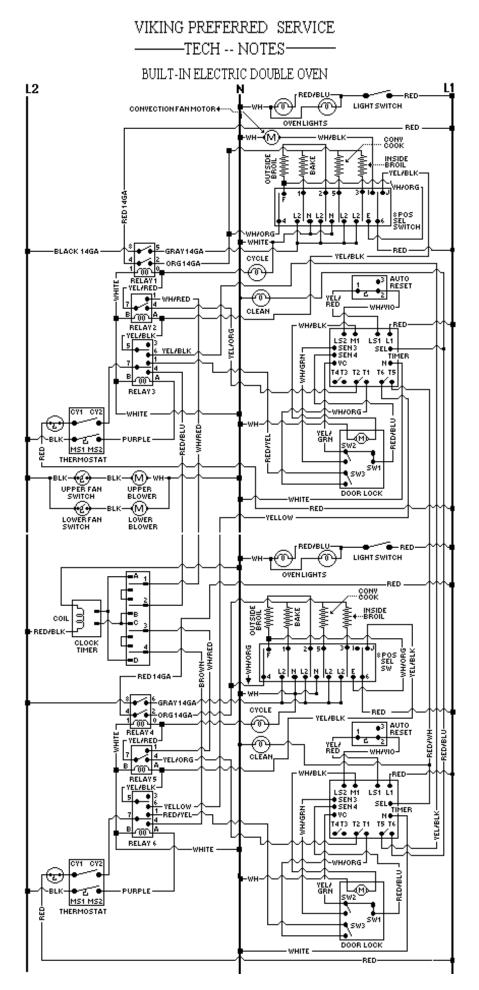
CONTROL CIRCUIT BOARD

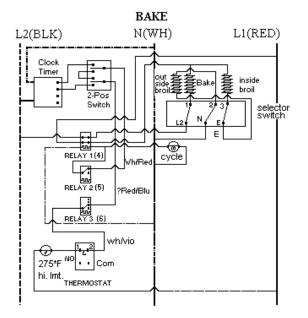


AUTO RESET SWITCH

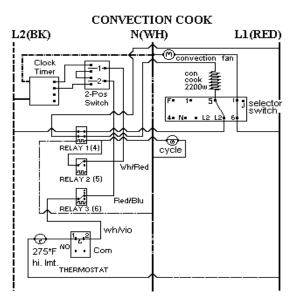
Function: The Auto Reset Switch is a single pole double throw switch (thermostat) which is activated be a thermal bulb and lever which is calibrated to $575^{\circ} F \pm 25^{\circ} F$. The Auto Reset Switch powers the door lock motor to lock at temperatures at or above $575^{\circ} F$. Also allows the door to unlock after the temperature drops below $575^{\circ} F$.



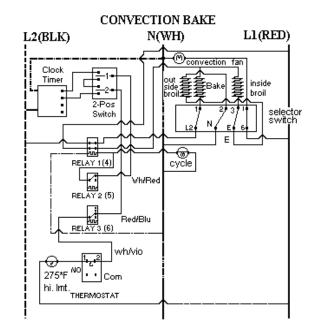




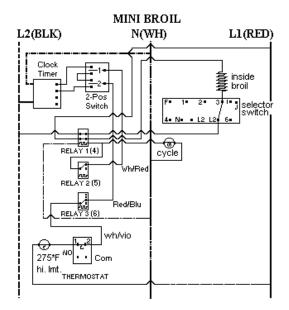
SELECT BAKE position closes switches 1-L2, 2-N, and 3-E. The thermostat closes switches Cy1-Cy2, which cycles with oven temperature powering relay 1 and the oven cycle light. When relay 1 closes, it powers the bake element at 208/240 VAC, and with the broil element in series across a 120VAC circuit, it powers the inside broil element at 70VAC and the outside broil element at 50VAC.



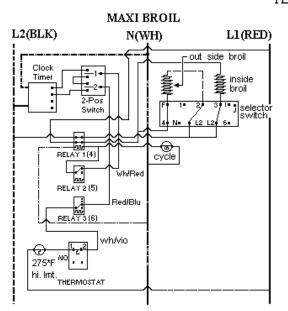
SELECT CONVECTION COOK position closes switches 5-L2 and 6-1. 6-1 powers the convection fan through L1 at 120VAC. The thermostat closes switches Cy1 - Cy2, which cycles with oven temperature, powering relay 1 and the oven light. When relay 1 closes, it powers the convection element at 208/240VAC.



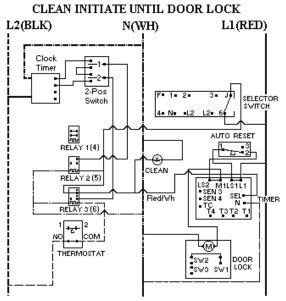
SELECT CONVECTION BAKE position closes switches 1-L2, 2-N, 3-E, and 6-1. 6-1 powers the convection fan through L1 at 120VAC. The thermostat closes switch Cy1-Cy2, which cycles with oven temperature powering relay1 and the oven light. When relay 1 closes, it powers the bake element at 208/240VAC, and with the broil element in series across a 120VAC circuit, it powers the inside broil element at 70VAC and the outside broil element at 50VAC.



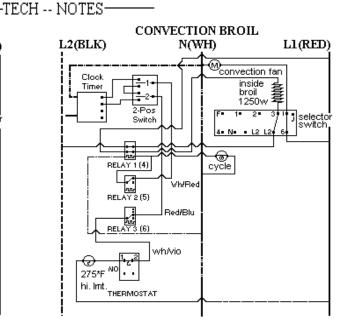
SELECT MINI BROIL position closes switches 3-L2. The thermostat closes switch Cy1-Cy2, powering relay 1 and the oven cycle light. When relay 1 closes, it powers the inside broil element at 208/240VAC.



SELECT MAXI-BROIL position closes switches 4-F, 2-L2, and 3-L2. The thermostat closes switch Cy1-Cy2, which cycles with oven temperature, powering relay 1 and the oven cycle light.. when relay 1 closes, it powers the inside broil element at 208/240VAC and the outside broil element at 208/240VAC.

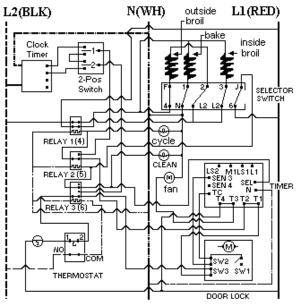


SELECT CLEAN position closes heating element circuits 4-F, 1-N, 2-L2, 3-L2 and door lock module / timer circuit J6 switches relay2. Thermostat clean position closes the cycle switch and thermostat clean switch, which switches relay 3. Switching relay 3 allows circuit J-6 to turn on the clean indicator light and enable the door lock module / timer which closes relay LS-L1and LS2-M1. This powers the door lock motor until 10 seconds after sensor #3 is signaled by VC that the door lock switch SW2 has been closed mechanically (along with SW3) by the door lock bolt.

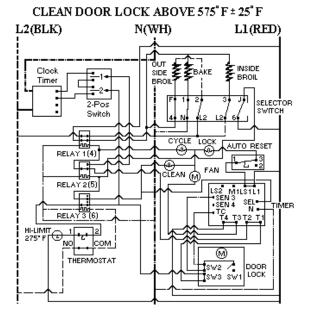


SELECT CONVECTION BROIL position closes switches 4 - F, 2 - L2, 3 - L2 and 6 - 1. 6 - 1 powers the convection fan through L1 at 120VAC. The thermostat closes switch Cy1 – Cy2, which cycles the oven temperature, powering relay 1 and the oven cycle light. When relay 2 closes it powers the inside broil element at 208/240VAC and the outside broil element at 208/240VAC.

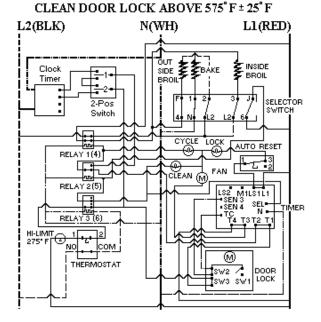
CLEAN DOOR LOCK BELOW 575° F ± 25° F



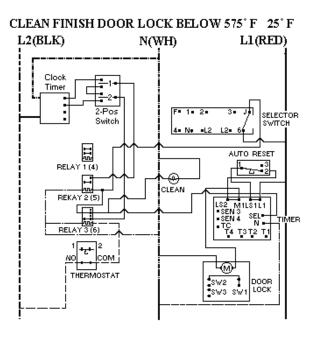
10 seconds after the signal to sensor #3, switch LS2 - M1 is opened, stopping the door lock motion and switches T1 - T2 and T3 - T4 which switches relay 1, powering the cooling fan, which closes relay 1 powering the inside and outside broil elements at 208/240VAC and the bake element to 120VAC.



AUTO RESET switches to 1-3 which turns door lock indicator light on and disables door lock motor circuit.



TIMER switches T3 - T4, T1 - T2 open, turning off the cooling fan, which will then be powered at 120VAC by the fan limit switch when needed, and opening the circuit to relay 1 which disables the heating elements. Switch LS2 - M1 closes to power the door lock Motor.



AUTO reset switches 1-2 closed allowing the door lock motor to operate and turning the door lock light off. The door lock motor operates until 2 seconds after sensor 4 is signaled be VC that the door lock SW1 has been closed mechanically by the door lock bolt. The door lock / timer switches LS2 – M1 and LS1 –L1 open and the timer resets.

TROUBLESHOOTING GUIDE Electric Wall Ovens

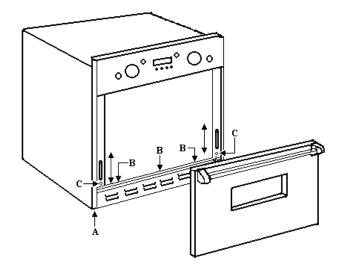
PROBLEM	PROBABLE CAUSE	CORRECTION
A. No Bake, No Broil No Cycle Light, No Power to Relay #1	A-1 House Breaker or Fuse open	A-1 Reset Breaker or replace Fuse
B. No Bake, No Broil, No Cycle Light, Power to Relay #1 (Red – Red/Blk tarminole #1 % #2)	B-1 Timed Bake/Broil function switch set to Timed function.B-2 Power Relay #1 Heater circuit open .	 B-1 Set Timed Bake/Broil function switch to manual. B-2 Replace Power Relay #1 (Power Relay #1 part # PM010026)
terminals #1 & #3) No power to Relay #1 Heater	B-3 Open contacts Relay #2 (single/ upper oven) (wh/red wire to neutral pin #1 and #7)	B-3 Replace Relay #2 (single/ upper oven) or #5 (lower oven) (Relay #2 and #5 part # PM010029)
	B-4 Open contacts Relay #3 (single/upper oven) (red/blu contact #3 to wh/vio contact #9) or open contact Relay #6 (lower oven) (Brown contact #3 to wh/vio contact #9)	B-4 Replace Relay #3 (upper oven) or Relay #9 (lower oven) (Relay part # PM010029)
	B-5 Open Thermostat Cycling contacts #1 and #2	B-5 Replace Thermostat
	B-6 Open High Limit Switch (contacts normally Closed)	B-6 Replace High Limit Switch
C. No Bake Function Broil functions	C-1 Open Bake Element	C-1 Replace Bake Element
normal and the Cycle Light is on	C-2 Open Selector Switch contacts 1 to L2	C-2 Replace Selector Switch
	C-3 Burned Wiring or Terminal connections.	C-3 Replace or Repair Burned Wiring and / or Terminal (spade) connector.
D. Poor Baking Results, Broil	D-1 Low Voltage Supply (240VAC Required).	D-1 Inform Customer of requirements.
Functions normal Cycle Light is on	D-2 Restricted Air Flow through the oven cavity.	D-2 Clear restriction from Oven Vent.
	D-3 No Top Heat from Broil Element. Open selector Switch contacts 3 to E.	D-3 Replace Selector Switch.
	D-4 Check Use and Care for suggested baking tips.	
E. No Convection	E-1 Open Selector Switch contact 6 to 1	E-1 Replace Selector Switch
Bake, Bake and Broil functions	E-2 Open Convection Motor winding	E-2 Replace Convection Motor
normal, Cycle Light is on.	E-3 Burned Wiring or terminal connections	Replace burned wiring or terminal connectors.
F. No Convection Cook, Bake and	F-1 Open Convection Cook Element	F-1 Replace Convection Cook Element.
Broil functions normal. Cycle Light is on.	F-2 Open Selector Switch contacts 5 to L2	F-2 Replace Selector Switch

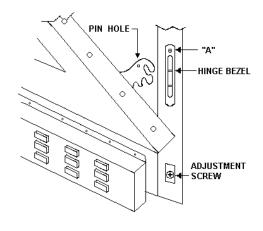
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TROUBLESHOOTING GUIDE Electric Wall Ovens				
PROBLEM	PROBABLE CAUSE	CORRECTION		
G. Convection Cook Heats, No Air Circulation	G-1 Open Winding in Convection Fan Motor	E-1 Replace Fan Motor		
	G-2 Frozen Motor Shaft	E-2 Replace Fan Motor		
	G-3 Open Selector Switch contacts 1 to 6	E-3 Replace Selector Switch		
 H. No Mini-Broil, Bake functions normal, Cycle Light is on. 	H-1 Open Selector Switch contacts 3 to L2	H-1 Replace Selector Switch		
	H-2 Open Inside Broil Element	H-2 Replace Inside Broil Element		
 I. No Maxi-Broil, Bake and Mini- Broil functions normal, Cycle Light is on. 	I-1 Open Selector Switch contacts F to 4, 2 to L2 and / or 3 to L2I-2 Open Outside Broil Element	I-1 Replace Outside Broil Element		
J. No Maxi-Broil, No	J-1 Open Selector Switch contacts F to 4,	J-1 Replace Selector Switch		
Top heat in Bake Mode, Cycle Light is on.	2 to L2 J-2 Open Inside and Outside Broil Elements.	J-2 Replace Open Broil Elements.		
K. No Convection Broil	K-1 Open Convection Motor winding	K-1 Replace Convection Motor.		
Bake and Broil are Normal, Cycle Light Is on. No Mini-Broil	K-2 Open Selector Switch contacts 3 to L2	K-2 Replace Selector Switch		
	K-3 Open Inside Broil Element	K-3 Replace Inside Broil Element		
L. No Self-Clean, Bake	L-1 Open Selector Switch contacts J to 6	L-1 Replace Selector Switch		
 and Broil functions normal Door won't lock. No Clean Light. No 120 VAC supply to Door Lock module/ timer (PC board) 	L-2 Open contacts Relay #2 (single/upper oven) or Relay #5 (lower oven).	L-2 Replace Relay #2 (single/upper oven) or #5 (lower oven).		
	L-3 Open contacts Relay #3 (single/upper Oven) or Relay #6 (lower oven).	L-3 Replace Relay #3 (single/upper oven) or #6 (lower oven).		
M. No Self-Clean Bake And Broil function Normal. Door won't Lock	M-1 Open Relay contacts LS1-1 and /or LS2-M1 on Door Lock Module / timer (PC board)	M-1 Replace Door Lock Module/ Timer (PC board)		
120VAC to Door Lock module / timer (PC board) is	M-2 Open contacts 1 to 2 on Auto Reset Thermostat.	M-2 Replace Auto Reset Thermostat		
present – No Motor movement – Clean Light is on.	M-3 Open windings in Lock Motor	M-3 Replace Lock Motor assembly		

-TECH -- NOTES-

TF	TROUBLESHOOTING GUIDE Electric Wall Ovens				
	PROBLEM	PROBABLE CAUSE	CORRECTION		
N.	Door Lock Motor continues to run no signal to sensor #3 on PC board the closes T1-T2 and T3-T4. Clean Light is on.	N-1 No SW2 Switch (closed be motor Movement) on Door Lock Mechanism not closing.	N-1 Adjust SW2 Switch position or Replace faulty Switch.		
0.	Door Lock Motor Engaged. Signal To Sensor #3 on PC board . No Heat, Clean Light is on.	O-1 Door Lock Module / Timer Relay T1 –T2 and T3-T4 not closing.	O-1 Replace PC board.		
Р.	Door Lock Motor Engaged. Cooling Fan Motor runs. (PC board T3 –T4 closing) No Heat.	 P-1 Door Lock Module / Timer (PC board) Relay T1-T2 not closing. P-2 Door Lock Module / Timer (PC board) Relay T1-T2 closing. Check SW3 on Door Lock Assembly. 	P-1 Replace PC boardP-2 Replace SW3 switch on Door Lock Assembly .		





DOOR REMOVAL

- Open door to full open position
- Place a pin in the pin hole
- Cose the door to the inserted pin
- Remove screw "A"
- Lift the door and hinge bezel out of the door socket
- Reverse the procedure to replace the door

DOOR ADJUSTMENT

- Remove the lower access panel
- Remove 2 screws at the bottom of each side trim (A)
- Remove the 3 screws beneath the door (B)
- (C) is the door adjustment screws (Turn Clockwise to
- raise the door) and (Counterclockwise to lower door)

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