





Model & Serial Number / Cabinet Frame Right

Bottom-Freezer Refrigerator Models LFX25976					
Description French Door Refrigerator					
Electrical Requirements 115 VAC @ 60 Hz					
Min. / Max. Water Pressure	20~120 PSI (1.4~8.4 kgf/cm²)				
Dimensions	35 ^{3/4} " (W) X 34 ^{1/4} " (D) X 69 ^{3/4} " (H), 46 ^{1/2} " (D w/ door open) 908 mm (W) X 870 mm (D) X 1772 mm (H), 1181 mm (D w/ door open)				
Net Weight	328 lb. (149 kg)				
Refrigerator Storage Capacity	17.6 cu. ft.				
Freezer Storage Capacity	7.1 cu. ft.				

Application Guidelines/Water Supply Parameters					
Service Flow	0.5 gpm (1.9 lpm)				
Water Supply	Potable Water				
Water Pressure	20 -120 psi (138 - 827 kPa)				
Water Temperature	33°F - 100°F (0.6°C - 38°C)				

INTRODUCTION



1 LED DISPLAY

The LED display shows the temperature settings, dispenser options, water filter, door alarm, and locking status messages.

② ICE TYPE BUTTON

The ICE TYPE button is used to select Cubed Ice or Crushed Ice.

3 FREEZER BUTTON

Press the FREEZER button to adjust the temperature in the freezer compartment. NOTE: When pressed simultaneously with the REFRIGERATOR button for more than five seconds, the temperature display will change from Fahrenheit to Celsius or vice versa.

4 REFRIGERATOR BUTTON

NEHRICERATOR SUTTON
Press the REFRIGERATOR button to adjust the temperature in the refrigerator compartment.

NOTE: When pressed simultaneously with the FREEZER button for more than five seconds, the temperature display will change from Fahrenheit to Celsius or vice versa.

6 ICE PLUS/ENERGY SAVING BUTTON

Press this button to activate the ICE PLUS function to increase loemaking capabilities up to 20 percent.

OR, Press and hold this button for at least 3 seconds to activate or deactivate the Energy Saving mode.

6 LIGHT/FILTER BUTTON

The LIGHT/FILTER button controls the lamp in the dispenser.

Press and hold the LIGHT/FILTER button for more than 3 seconds to reset the filter indicator after the water filter has been replaced.

7 ALARM/LOCK BUTTON

Press this button to control the door-open alarm.

Press and hold this button at least 3 seconds to lock or unlock all the other function buttons on the control panel, including operation of the dispenser.

INTRODUCTION © DISPENSER SELECTION INDICATOR

Shows Cubed ice or Crushed Ice selection that will be dispensed when the push switch

PREEZER TEMPERATURE

Indicates the set temperature of the freezer compartment in Celsius or Fahrenheit.

3 REFRIGERATOR TEMPERATURE

Indicates the set temperature of the refrigerator compartment in Celsius or Fahrenheit.

ICE PLUS

When the ICE PLUS/ENERGY SAVING button is pressed, the display will indicate the selected function has been activated.

6 DISPENSER LIGHT INDICATOR

When the LIGHT button is pressed, the display will indicate the selected function: The dispenser light is on, this indicator will appear on the display panel.

6 DOOR ALARM INDICATOR

This indicator shows that the door-open warning alarm is activated.

ENERGY SAVING

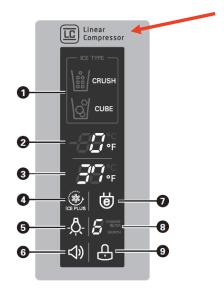
This indicater shows that Energy Saving mode is activated.

8 WATER FILTER STATUS

This indicator shows the current status for the water filter. See Resetting the Filter Indicator.

LOCK STATUS

This indicator shows the current status for the control panel functions is set to LOCK.

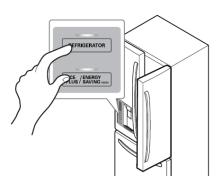


INTRODUCTION

ACAUTION

Display mode setting and its cancellation

- With the refrigerator door open, keep pressing the REFRIGERATOR button and ICE PLUS/ENERGY SAVING button more than 5 seconds, then it goes to the display mode.
- · Perform the same way again to cancel the display
- · All freezing units do not work at the display mode.



Power Saving Mode



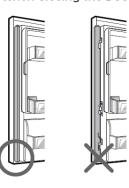
 The display will remain off until the next time the door is opened.

The display will also turn on when any button is pressed, and it will remain on for 20 seconds after the last door opening or button selection.

 To deactivate the Power-Saving Mode, press the FREEZER and ICE PLUS/ENERGY SAVING buttons simultaneously and hold them for 5 seconds until the tone sounds.

NOTE: Power Saving Mode function is set on the product.

Caution When Closing the Door



ACAUTION

To reduce the risk of door scratches, please make sure that the refrigerator door mullion is always folded in.

If dew gathers on the refrigerator door mullion at any point, deactivate the Energy Saving mode until the issue resolves itself.



Door Mullion Folded In



Caution: Door Mullion Folded Out / Fold In B4 Closing

Temperature Display

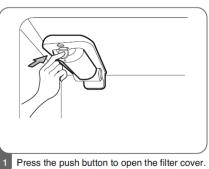
To change the temperature display from Fahrenheit to Celsius:

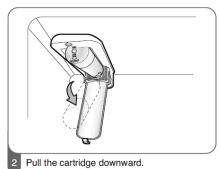


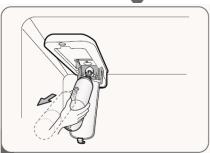
- Simultaneously press and hold the FREEZER and REFRIGERATOR buttons for more than 5 seconds.
- $\bullet\,\mbox{Do}$ the same to convert back to Fahrenheit.

INTRODUCTION

1. Remove the old cartridge.







Pull out the filter cartridge.

NOTE: When opened at a full angle the cartridge should easily come out.

Part # ADQ36006101

Water Filter & BYPASS







Part # ADQ36006101

INTRODUCTION

TWIST TRAY Ice Maker

- 1) 0°F Ice Room Required.
- 2) Tray Sensor must reach ±15°F plus 80 minutes of run time B4 harvest.
- 3) Makes a minimum of 100 to 120 cubes per 24 Hr. period.
- 4) Icemaker Fill is 100 to 110ml or 3.5 to 4.0 ounces of H₂0.



Pilot Valve Flow Sensor

Ice & Water Valves in
Left Door

IM Line

Water Dispenser Line

Water Reservoir

Flow Sensor allows
Display Board Micom to
monitor IM Fill and Water
Dispenser Amounts.
(See Wiring Diagram!)



WARRANTY

LG ELECTRONICS U.S.A., INC. LG REFRIGERATOR LIMITED WARRANTY - U.S.A.

Should your LG Refrigerator ("Product") fail due to a defect in materials or workmanship under normal home use, during the warranty period set forth below, LG will at its option repair or replace the product. This limited warranty is valid only to the original retail purchaser of the product and applies only when purchased and used within the United States including U.S. Territories. Proof of original retail purchase is required to obtain warranty service under this limited warranty.

WARRANTY PERIOD								
Refrigerator	Seal (Condenser, Dryer, Connectin	Linear Compressor						
One (1) year from the date of original retail purchase	One (1) year from the date of original retail purchase	Seven (7) years from the date of original retail purchase	Ten (10) years from the date of original retail purchase					
Parts and Labor (internal/functional parts only)	Parts and Labor	Parts only (Consumer will be charged for labor)	Part only (Consumer will be charged for labor)					

Noises associated with normal operation and failure to follow instructions found in the use and care and installation guides or operating the unit in an unsuitable environment will not be covered under this warranty.

- ▶ Replacement products and parts are warranted for the remaining portion of the original warranty period or ninety (90) days, whichever is greater.
- ▶ Replacement products and parts may be new or remanufactured.

 THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST REVENUES OR PROFITS, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

WARRANTY

THIS LIMITED WARRANTY DOES NOT COVER:

- Service trips to deliver, pick up, install, or repair the product; instruct the customer on operation of the product; repair or replace fuses or correct wiring or plumbing, or correction of unauthorized repairs/installation.
- Failure of product to perform during power failures and interruptions or inadequate electrical service.
- Damage caused by leaky or broken water pipes, frozen water pipes, restricted drain lines, inadequate or interrupted water supply or inadequate supply of air.
- Damage resulting from operating the product in a corrosive atmosphere or contrary to the instructions outlined in the product owner's manual.
- Damage to the product caused by accidents, pests and vermin, lightning, wind, fire, floods, or acts of God.
- Damage resulting from misuse, abuse, improper installation, repair, or maintenance. Improper repair includes use of parts not approved or specified by LG.
- 7. Damage or failure caused by unauthorized modification or alteration, or if it is used for other than the intended purpose, or any water leakage where the unit was not properly installed.
- Damage or failure caused by incorrect electrical current, voltage, or plumbing codes, commercial or industrial use, or use of accessories, components, or consumable cleaning products that are not approved by LG.

- Damage caused by transportation and handling, including scratches, dents, chips, and/or other damage to the finish of your product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery (Call: 1-800-243-0000).
- Damage or missing items to any display, open box, discounted, or refurbished product.
- 11. Products with original serial numbers that have been removed, altered, or can not be readily determined. Model and Serial numbers, along with original retail sales receipt, are required for warranty validation.
- 12. Increases in utility costs and additional utility expenses.
- 13. Replacement of light bulbs, filters, or any consumable parts.
- 14. Repairs when your product is used in other than normal and usual household use (e.g. commercial use, offices, and recreational facilities) or contrary to the instructions outlined in the product owner's manual.
- Costs associated with removal of your product from your home for repairs.
- 16. The removal and reinstallation of the product if it is installed in an inaccessible location or is not installed in accordance with published installation instructions, including LG's owner's and installation manuals.
- 17. Shelves, door bins, drawers, handles, accessories, and other parts besidesÄthose that were originally included with this particular model.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

For complete warranty details and customer assistance, please call or visit our website:

Call 1-800-243-0000 (24 hours a day, 365 days a year) and select the appropriate option from the menu, or visit our website at http://us.lgservice.com
Or by mail: LG Customer Information Center:

P. O. Box 240007, 201 James Record Road Huntsville, Alabama 35813 ATTN: CIC

Write your warranty information	below:
Product Registration Informatio	n:
Model:	

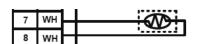
REF Section

REF Section Thermistor





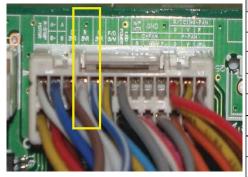




Refrigerator Sensor $41^{\circ}F = 24K\Omega @ 2.4V_{DC}$

CON4 Pins 7 & 8

REF Section



Main PWB CON4 Refrigerator Temperature Sensor

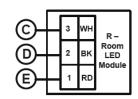
Temperature	Result
23°F / -5°C	38.5 ~ 36.5 kΩ
32°F / 0°C	30.5 ~ 29.5 kΩ
41°F / 5°C	24.5 ~ 23.5 kΩ
50°F / 10°C	20 ~ 19 kΩ
59°F / 15°C	16 ~15.5 kΩ

TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	225.1 ㎏	4.48 V
-30°F (-35°C)	169.8 ㎏	4.33 V
-21°F (-30°C)	129.3 kΩ	4.16 V
-13°F (-25°C)	99.30 ㎏	3.95 V
-4°F (-20°C)	76.96 ㎏	3.734 V
5°F (-15°C)	60.13 <u>k</u> Ω	3.487 V
14°F (-10°C)	47.34 №	3.22 V
23°F (-5°C)	37.55 ㎏	2.95 V
32°F (0°C)	30 kΩ	2.67 V
41°F (5°C)	24.13 ㎏	2.40 V
50°F (10°C)	19.53 №	2.14 V
59°F (15°C)	15.91 ㎏	1.89 V
68°F (20°C)	13.03 ㎏	1.64 V
77°F (25°C)	10.74 ㎏	1.45 V
86°F (30°C)	8.89 ㎏	1.27 V
95°F (35°C)	7.40 ㎏	1.10 V
104°F (40°C)	6.20 ㎏	0.96 V

REF Section



REF LED



LED Module

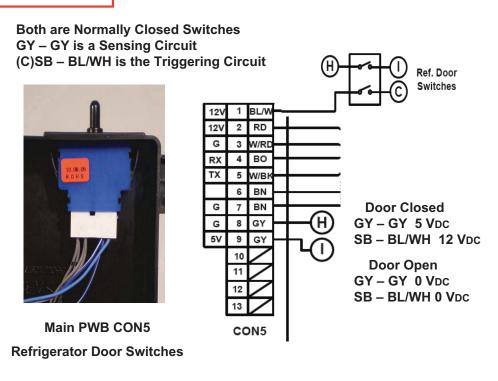
Pin 1 (E) – $12V_{DC}$ Constant Pin 2 (D) – Ground Pin 3 (C) – Switched $12V_{DC}$ from Door Switch / LED Module turns ON.

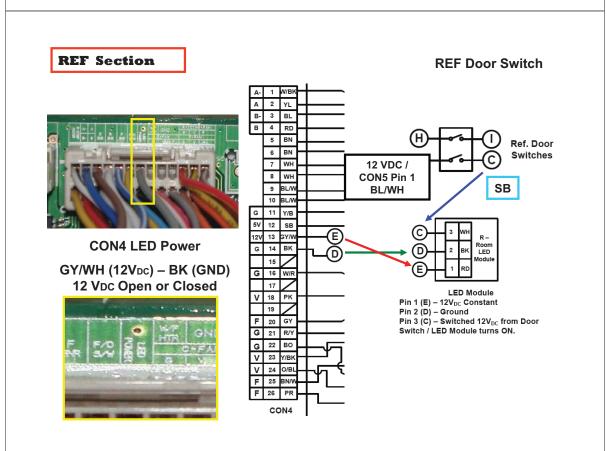
Door Closed Door Open

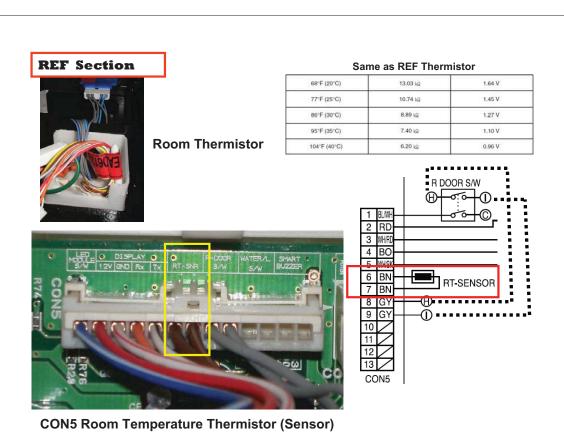
BK-WH 0 VDC BK-WH 12 VDC

BK - RD 12 VDC BK - RD 12 VDC

REF Section

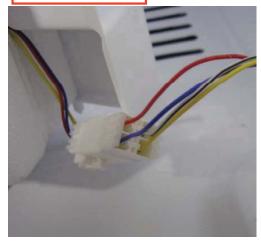








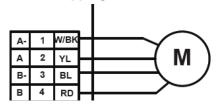
REF Section





CON 4 RD – YL 350Ω BL – WH/BLK 350Ω

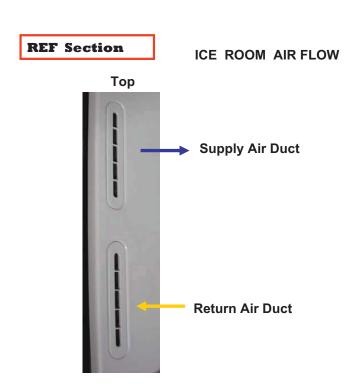
Stepping Motor Connector



Refrigerator Stepping Motor 1 to 3 / $350\Omega \pm 10\%$ 2 to 4 / $350\Omega \pm 10\%$ (Both Stators +/- DCmv @ 25Hz in Test Mode)



 $RD-YL~350\Omega \\ BL-WH~350\Omega$



DOOR ASSEMBLY

Remove 4 phillips screws

Pull UP & BACK



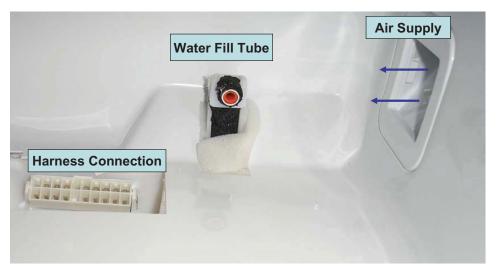
DOOR ASSEMBLY

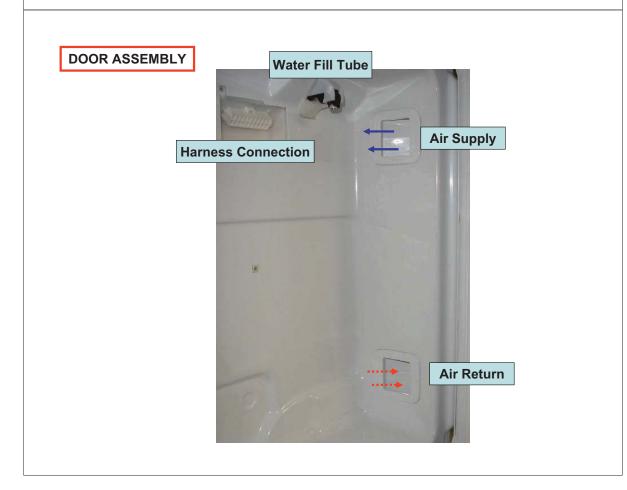
Disconnect Harness



DOOR ASSEMBLY

Ice Room Cavity TOP

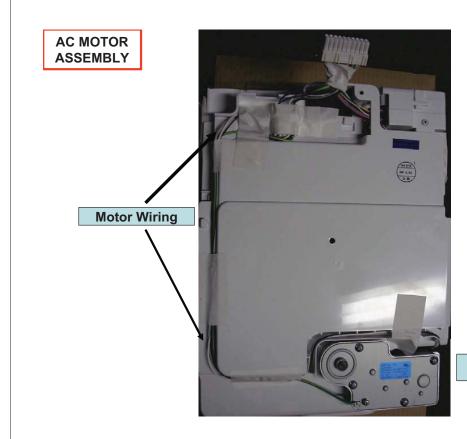




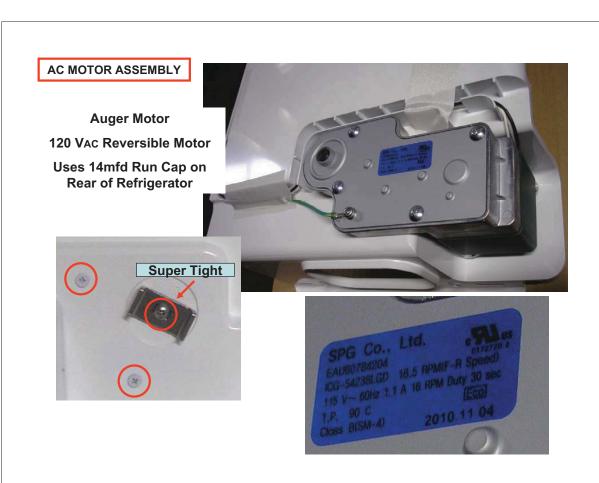
DOOR ASSEMBLY

ICE ROOM AIR FLOW





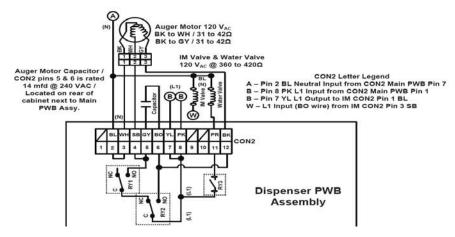
Auger Motor 120 VAC

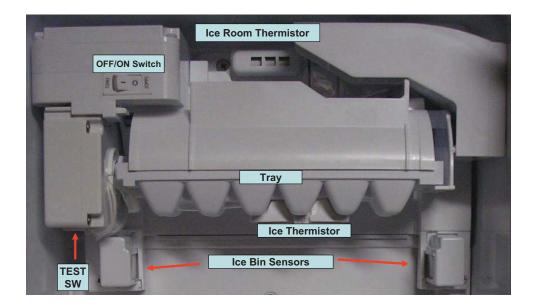


AC MOTOR ASSEMBLY

Auger Motor
120 Vac Reversible Motor
Uses 14mfd Run Cap on
Rear of Refrigerator



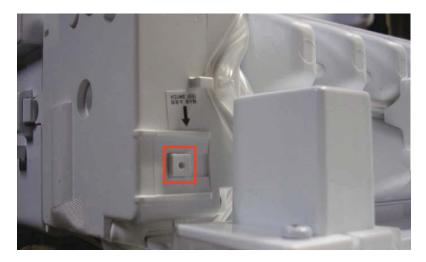




ICE MAKER ASSEMBLY



Senses Tray Temperature (Set Point is 16° to 18°F)



PRESS & HOLD Test Switch 3 Seconds to initiate Test Mode

ICE MAKER ASSEMBLY

ICE MAKER FACTS

- 1. Normal Cycle is 70 to 80 minutes PLUS Tray Temperature
- 2. Icemaker Tray must reach 16°F to 18°F sensed by tray sensor. (Note: Ice Room temperature should be 0° to 5°F.)
- 3. Infrared ice level sensors stop ice production when ice bin is FULL! (See: Test Procedure)
- 4. Produces a minimum of 100 to 120 cubes per 24 Hours
- 5. Fill amounts range from 100ml to 110ml or 3.5 to 4.0 ounces. Fill monitored by Display PWB using Flow Meter.
- 6. Test Button on bottom of icemaker drive module can be PRESSED to start a cycle & perform a fill test.
- 7. Icemaker ON/OFF switch in OFF position
 - a. Icemaker Stops
 - b. Ice Room Temperature rises to approx. 20°F (<32°F)
 - c. Cubes remain frozen!

MORE ICE MAKER FACTS

- 1. Icemaker Input Voltage is 12Vpc from Display PWB. See CON102 pins 1 & 3 Display PWB Assembly Diagram.
- 2. Icemaker Motor operates on 12VDC
- 3. Icemaker communicates to Display PWB thru 5VDC signals
- 4. No Components of the Icemaker are replaceable
- 5. Replace Icemaker as an assembly
- 6. Troubleshooting is simple!
- 7. Reminder: Icemakers require water, proper temperature & time to produce ice cubes!!

ICE MAKER ASSEMBLY

Troubleshooting

No Ice or Not Enough Ice

- 1. Is the ON/OFF switch pressed to ON?
- 2. Is the water supply valve turned ON?
- 3. Measure the Ice Room Temperature; Is it between 0° to 5°F? If no, check freezer temp setting & airflow!
- 4. Is there water (or frozen cubes) in the tray? If no, see Next Slide for Failure Code *ER-gF*
- 5. Press the Test Switch: Does the tray turn and does it fill with water? If the icemaker harvests and fills, the Icemaker is OK!! If no, see Next Slide for Failure Code ER-It
- 6. Perform Ice Detector Sensing Circuit Test (6 Slides forward!)

Icemaker Failure Codes

Press *ICE PLUS & FREEZER* Buttons Simultaneously If either Failure Code Appears follow Test Procedures!



Harvest Error

Motor did not run or turn the tray!



Fill Error Water Fill Not Sensed!

ICE MAKER ASSEMBLY



Harvest Error Motor did not run or turn the tray!

Press the Test Button / IF icemaker does not run (turn tray) perform 12Vpc input test (see Next Slide)!



12VDC Input Voltage Test

- 1) Place meter leads between WH & PR on the AC Motor Assembly Connector.
- 2) If 12Vpc is present, replace the Icemaker Assembly!

ICE MAKER ASSEMBLY



Fill Error Water Fill Not Sensed!

Press the Test Button / IF Icemaker Does Not Fill

- 1) Test IM Valve & Pilot Valve (See Wiring Diagrams)
- 2) Test 120Vac outputs from Icemaker / Test 120Vac from Main PWB to Pilot Valve. (See Wiring Diagrams)
- 3) Continued Next Slide



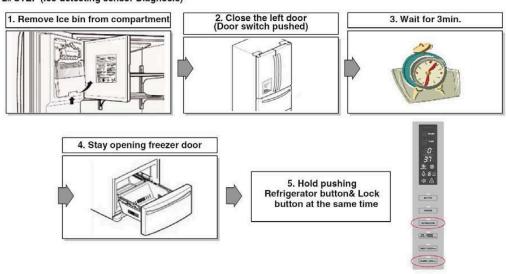
Fill Error Water Fill Not Sensed!

Press the Test Button / IF Icemaker Does Fill

- 3) Test for pulsing 2 to 5Vpc from Flow Meter @ Small Connector Left Door Hinge between BR/WH & GY/WH wires. (See Wiring Diagrams)
- 4) In no pulsing VDC above, test for 5VDC from YL to BR/WH

ICE MAKER ASSEMBLY

2st STEP (Ice-detecting sensor Diagnosis)



If "ETY" is shown on the display after the procedure above, Ice-detecting sensor is normal.

If "FULL" is shown on the display after the procedure above, Ice-detecting sensor is abnormal.

ETY = empty

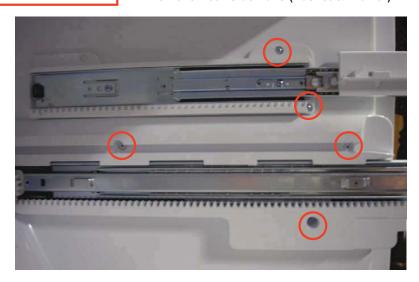
Advanced Icemaker Troubleshooting on Display PWB Assembly

Listed Below are the 5VDC signals from the IM to Display PWB / These tests require the technician to remove the Dispenser Recessed Assembly!

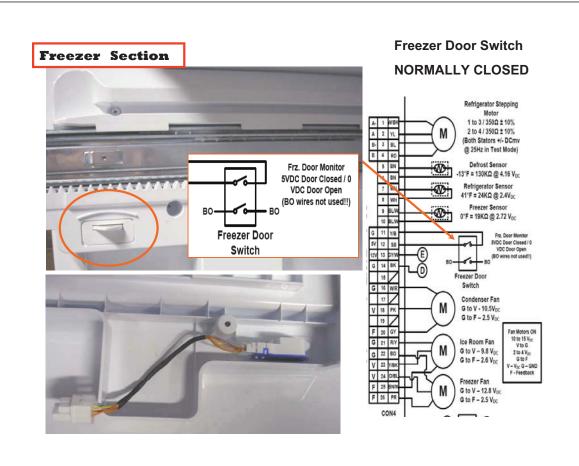
CO			BD.							Tw	ist '	Γray	/ Ice	ma	ker '	Γesti	ng							
Inputs				-	Pin M	No.	Wii	re Co	olor			Sw	itch			rror C				Cod				
											OFF		O	N	Ha		Error		Fill	Erro	r	Bu	icket F	ull
R/D	St	ate			5			PK			OV		5	/		5V				5V			5V	
I/N	1 Te	est			7		V	VH/R	D		OV		51	/		5V				5V			5V	
IM State 1	Ha	rves	st		9		E	O/B	L		5V		01	/		5V				5V			OV	
IM State 2	Fil	1			11			PR			5V		01	/		ov			5	5V			OV	
IM State 3	Ice	Ma	king	ĺ	13	3		GY			5V		01	/		ov				V			5V	
																ER-	lt		ER	R-gF				
Nata ON																								
Note: GN				e	_																			
for a					3			BN																
12 VD	c s	upp	ly		1		G	Y/W	/H															
		G			G									s		s	G							
40	40	N			N									1		ī	N							
	12		5V				5V		5V		5V								5V					
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						WH		ВО	0.00		PR/		7	YL/	1	GY/R	D/BN	1		Т	7	WH	BL/BL	/
GY						AAL																		
GY/ RD	RD	BN	SB	PK	ВК	RD		BL	BL	PR	WH	GΥ		BK			LWH		YL	PK	\vee		RD W	



Remove Both Side Rails (Basket & Drawer)



Remove circled screws.

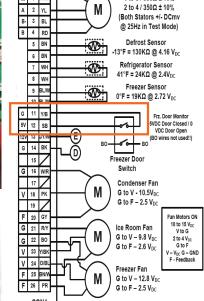


Freezer Door Switch



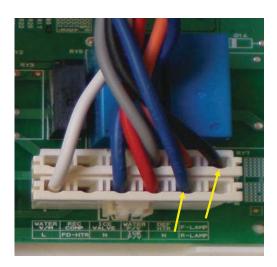
YL/BL - SB 0 VDC - Door Open 5 VDC - Door Closed





Refrigerator Stepping Motor 1 to 3 / 350Ω ± 10%

Freezer Section



Door Open BK – BL =120 VAC
Connector in Freezer



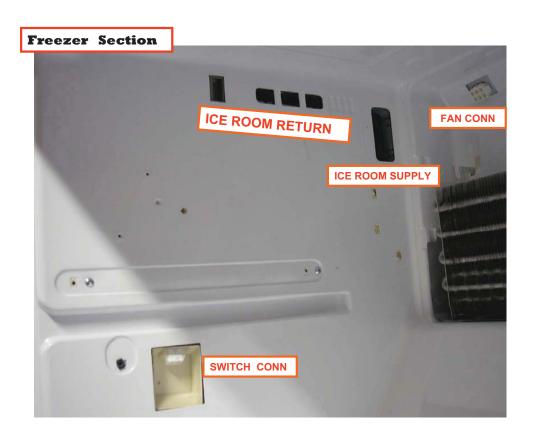


Max 60 Watt



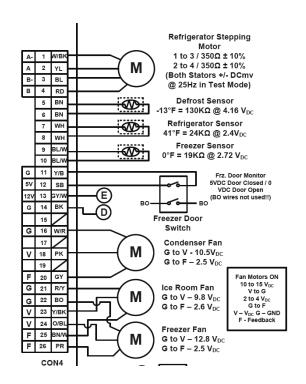


To remove REAR PANEL:
After Removing Side RailsRemove 1 Screw – Pull on Panel











Freezer Thermistor

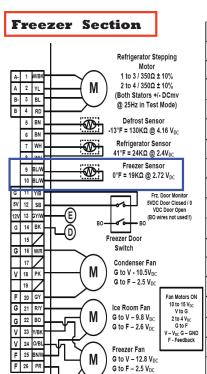




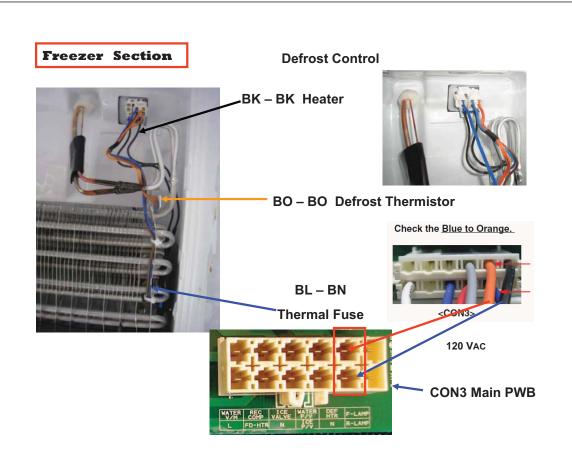
BL - BL

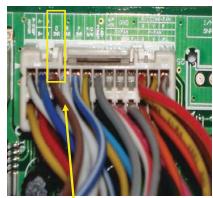
		-1
(1) To (2)	Result	2
-22°F / -30°C	40.5 ~ 38.5 kΩ	
-13°F / -25°C	30.5 ~ 28.5 kΩ	1
-4°F / -20°C	23 ~ 21.5 kΩ	
5°F / -15°C	17.5 ~ 16.5 kΩ	
14°F / -10°C	13.5 ~ 12.5 kΩ	1.0
23°F / -5°C	10.5 ~ 9.5 kΩ	
32°F / 0°C	8 ~7.5 kΩ	





TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	225.1 kg	4.48 V
-30°F (-35°C)	169.8 №	4.33 V
-21°F (-30°C)	129.3 kΩ	4.16 V
-13°F (-25°C)	99.30 ㎏	3.95 V
-4°F (-20°C)	76.96 kΩ	3.734 V
5°F (-15°C)	60.13 ㎏	3.487 V
14°F (-10°C)	47.34 ㎏	3.22 V
23°F (-5°C)	37.55 kΩ	2.95 V
32°F (0°C)	30 kΩ	2.67 V
41°F (5°C)	24.13 kg	2.40 V
50°F (10°C)	19.53 ㎏	2.14 V
59°F (15°C)	15.91 ㎏	1.89 V
68°F (20°C)	13.03 №	1.64 V
77°F (25°C)	10.74 ㎏	1.45 V
86°F (30°C)	8.89 ㎏	1.27 V
95°F (35°C)	7.40 ㎏	1.10 V
104°F (40°C)	6.20 kQ	0.96 V





BN - BN

Defrost Thermistor

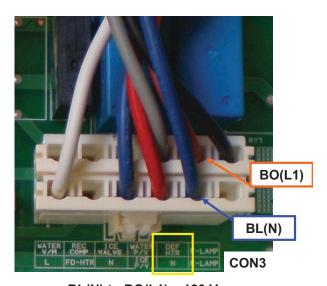


TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	225.1 kΩ	4.48 V
-30°F (-35°C)	169.8 ㎏	4.33 V
-21°F (-30°C)	129.3 <u>kΩ</u>	4.16 V
-13°F (-25°C)	99.30 ㎏	3.95 V
-4°F (-20°C)	76.96 ㎏	3.734 V
5°F (-15°C)	60.13 ㎏	3.487 V
14°F (-10°C)	47.34 kΩ	3.22 V
23°F (-5°C)	37.55 kΩ	2.95 V
32°F (0°C)	30 kΩ	2.67 V
41°F (5°C)	24.13 ㎏	2.40 V
50°F (10°C)	19.53 ㎏	2.14 V
59°F (15°C)	15.91 №	1.89 V
68°F (20°C)	13.03 №	1.64 V
77°F (25°C)	10.74 №	1.45 V
86°F (30°C)	8.89 ㎏	1.27 V
95°F (35°C)	7.40 ㎏	1.10 V
104°F (40°C)	6.20 ㎏	0.96 V

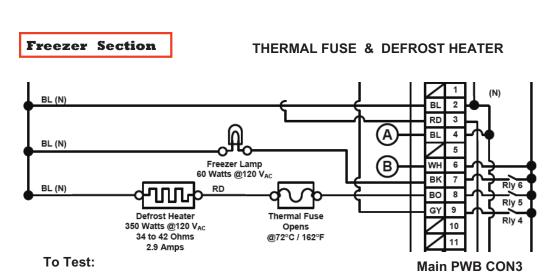
Freezer Section



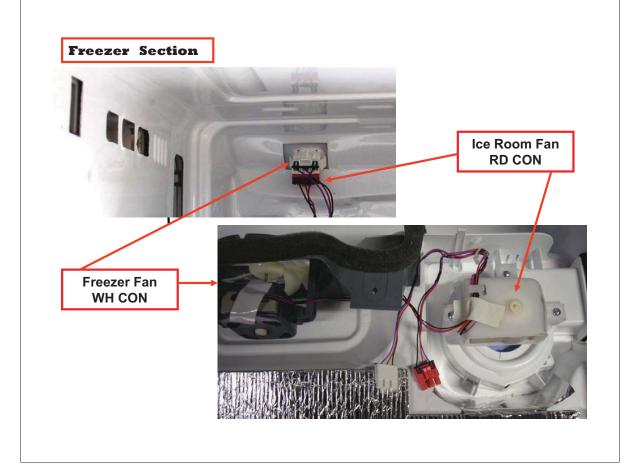
THERMAL FUSE & DEFROST HEATER

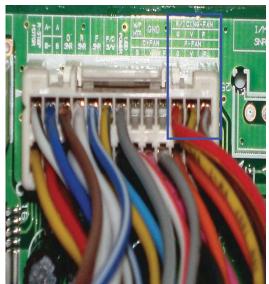


BL(N) to BO(L1) - 120 VAC



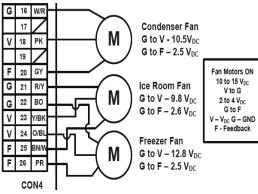
- 1) Disconnect Power
- 2) Disconnect CON3 on the Main PWB
- 3) Ohm Test Heater & Fuse from Pins 2 to 8 (34 to 42Ω)
- 4) Reconnect CON3 & Reconnect Power
- 5) Press Test Button on Main PWB 3 Times
- 6) Place Amp Meter around BO (± 3 amps)





ICING FAN

RD/YL - YL/BK = 9 to 15 V (G - V) RD/YL - BN/WH = 2.5 V (G - F)



FREEZER FAN

BO - O/BL = 12 to 15 V (G - V) BO - PR = 2.5 V (G - F)

G-V = Supply Voltage G- F = Signal Voltage

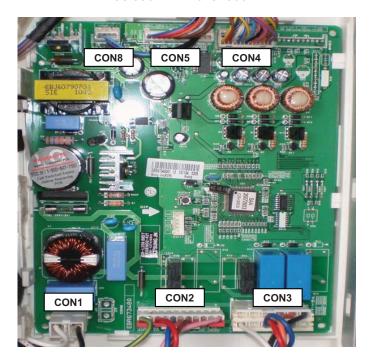
REAR

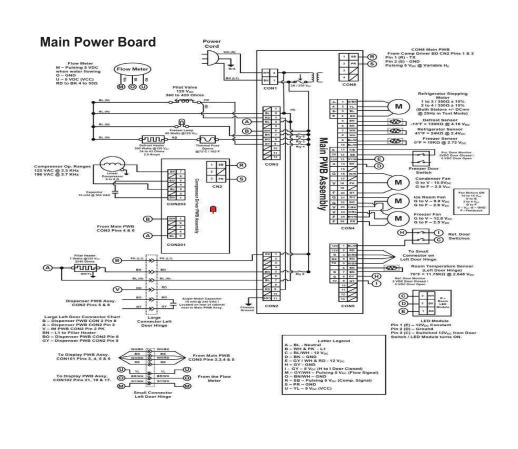
Main PCB Assembly Loc 500A EBR67348001

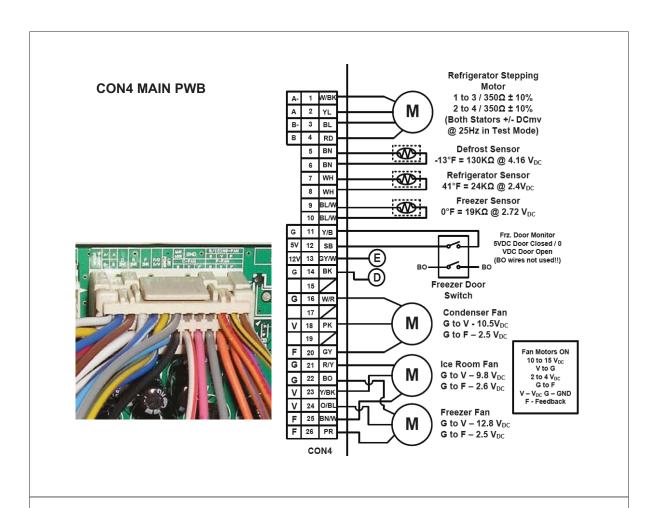


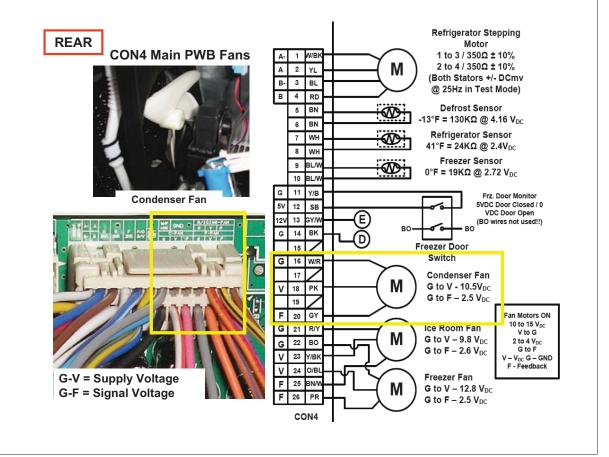
REAR

Main PCB Assembly Loc 500A EBR67348001

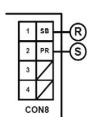








CON 8 & 1

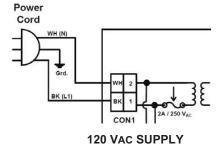


CON8 Main PWB From Comp Driver BD CN2 Pins 1 & 3 Pin 1 (R) - TX Pin 2 (S) - GND Pulsing 5 V_{DC} @ Variable H_z

CON 8



CON 1





REAR

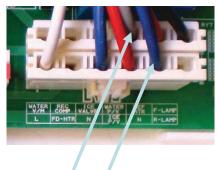
WATER INLET VALVE



WATER FLOW SENSOR $4-30~\Omega$ RD - BK

AJU72992601 - Valve Assembly

CON 3

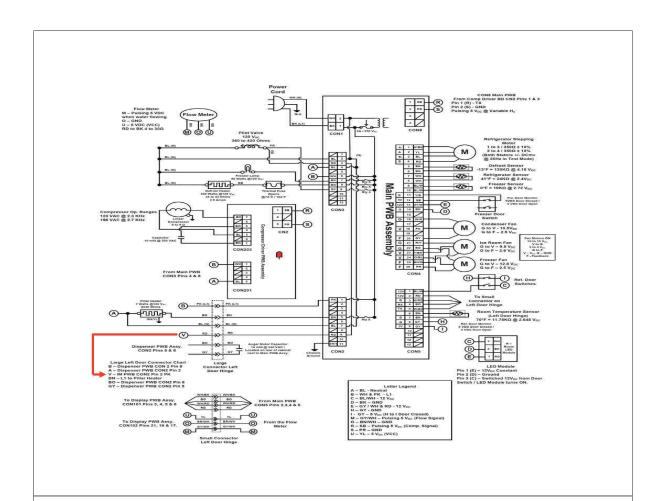


GY - BL = 120 VAC360 - 420 Ω

NOTE: GY connects to PR at the Valve

RD also connects to the Valve

See Diagram



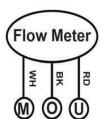
NOISE FILTER Capacitors on Pilot Valve A/C Connections



REAR

WATER INLET VALVE and NOISE FILTER

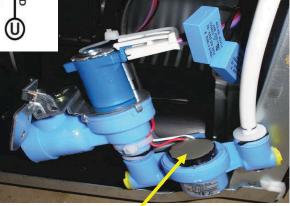
Flow Meter
M – Pulsing 5 VDC
when water flowing
O – GND
U – 5 VDC (VCC)
RD to BK 4 to 30Ω



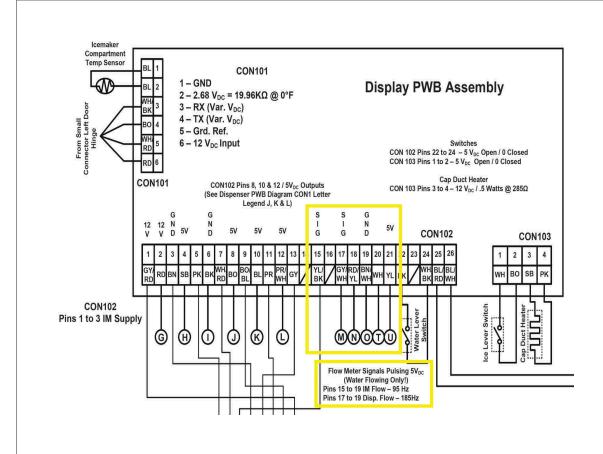
Flow Meter for I/M water flow can be checked at top left hinge small connector. GR/WH & BR/WH Pulsing 5Vpc

Flow Meter can also be checked at Display Assem on CON102

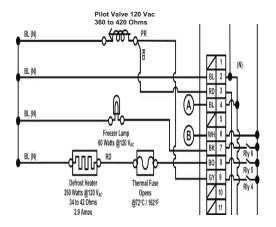
Flow Meter Signals Pulsing 5V_{DC} (Water Flowing Only!) Pins 15 to 19 IM Flow – 95 Hz Pins 17 to 19 Disp. Flow – 185Hz



WATER FLOW SENSOR



CON 3 Main Bd



Component Energized

Blue 2 to Red 120 VAC = Pilot Valve I/M

Blue 2 to Gray 120VAC = Pilot Valve

changes to Purple Dispenser

Blue 4 to White 120 VAC = Compressor

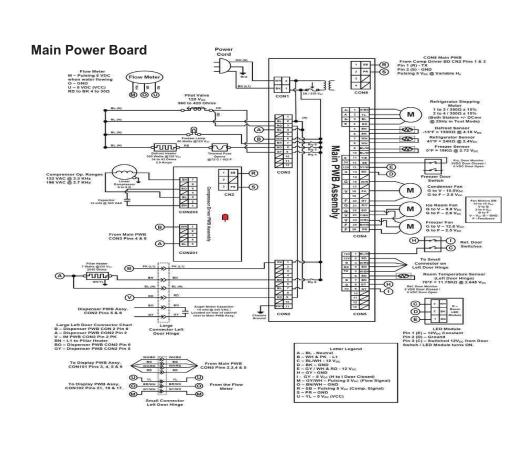
Blue 2 to Black 120 VAC = Freezer Lamp

Blue 2 to Orange 120 VAC = Defrost

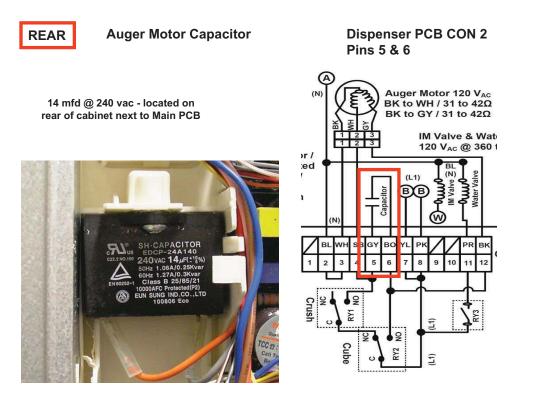
Blue 2 to Gray 120 VAC = Water Valve

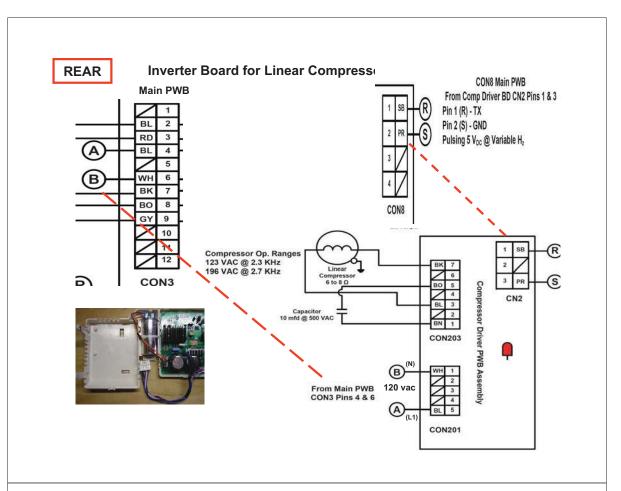


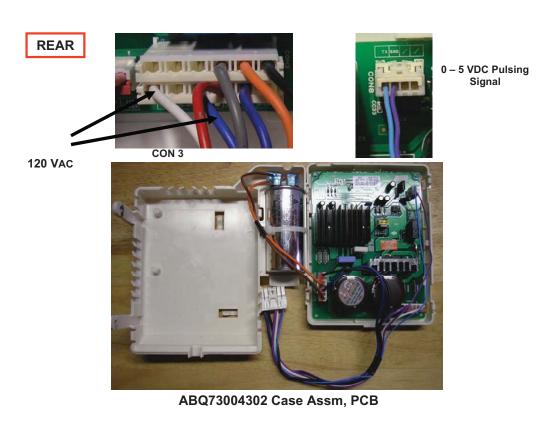
Con 3



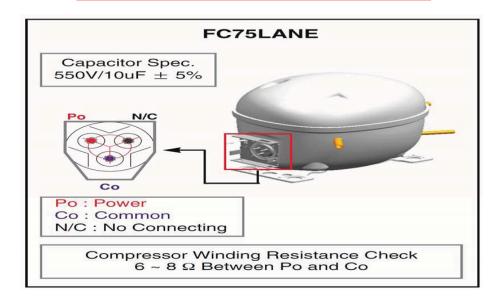
CON2 MAIN PCB PINK = L1 Pillar Heater 7 Watts @120 V_{AC} 2040 Ohms BR to BL = 120 VAC 7004 Pillar Heater BL (N) Blue = Neutral Connects to Red to BL = 120 VAC **Pilot Valve** во Auger Motor Capacitor 14 mfd @ 240 VAC / Dispenser PWB Assy. CON2 Pins 5 & 6 Located on rear of cabinet CON2 GY T Chassis next to Main PWB Assy. Large Left Door Connector Chart B - Dispenser PWB CON 2 Pin 8 A - Dispenser PWB CON2 Pin 2 V - IM PWB CON2 Pin 2 PK BN - L1 to Pillar Heater BO - Dispenser PWB CON2 Pin 6 GY - Dispenser PWB CON2 Pin 5







Error Codes and Troubleshooting the Linear Compressor



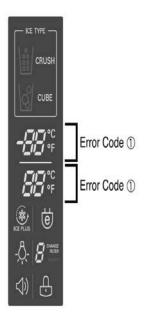
Error Codes and Troubleshooting

Error Code Display

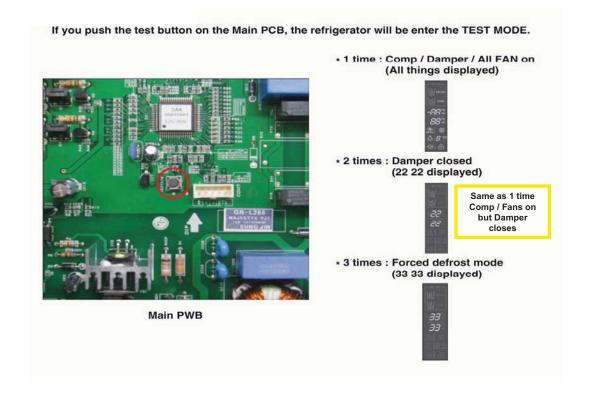
3 hours before the error is displayed: Press *Ice Plus* and *Freezer* simultaneously for Error Display.

3 hours after the error all errors except "Er rt", "Er gF" and "Er It" will display automatically. To display these "non-critical" Error Codes ("") you must press *Ice Plus* & *Freezer* to recall these errors.

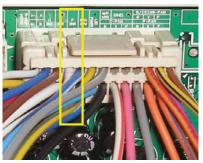
Note: "Er rt", "Er gF" & "Er It" DO NOT display automatically!! Press *Ice Plus* & *Freezer*!



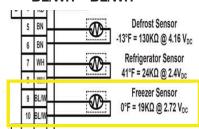
Error Display			Error Detection Category	Error	Display		
		NO		Freezer Temperature	Freezer Temperature	Error Generation Factors	Remark
		1	Normality			None	Normal operation of Display
		2	Freezer Sensor Error	Er	FS	Short or Disconnection of Freezer Sensor	
		3	Refrigerator Sensor Error	Er	rS	Short or Disconnection of Refrigerator Sensor	
		4	Defrosting Sensor Error	Er	dS	Short or Disconnection of Defrosting Sensor	
		5	Icing Sensor Error	Er	IS	Short or disconnection of the sensor about Ice maker (Icing sensor, Ice maker sensor)	Check each sensor and its connector.
	N/A on	6	Pantry sensor error	Er	ss	Short or Disconnection of Pantry Sensor	
	LFX25976	7	Room Temp Sensor Error	Er	rt	Short or Disconnectoin of Room temp.sensor	
		8	Ice maker kit defect	Er	lt	Other Electric system error such as moter, gear, Hall IC, operation circuit within I/M kit	When the ice does not drop even when the I/M Test S/W is pressed (same as model applied Twisting Ice Maker before)
		9	Flow Meter(Sensor) Defect	Er	gF	Error of flow meter or water input or low water pressure	Error of flow meter or water input or low water pressure or flow meter connection
		10	Poor Defrosting	Er	dH	Even though it is passed 1 hour since then Defrosting, if Defrosting sensor is not over 46°F(8°C), it is caused	Temperature Fuse Disconnection, Heater disconnection, DRAIN Jam, Poor Relay for Heater
		11	Abnormality of BLDC FAN Motor for Ice Making	Er	IF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
		12	Abnormality of BLDC FAN Motor for Freezer	Er	FF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
		13	Abnormality of BLDC FAN MOTOR For Refrigerator	Er	rF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
		14	Abnormality of BLDC FAN Motor for Mechanic Room	Er	CF	It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating	Poor BLDC Motor connection, DRIVE IC, and TR
		15	Communication Error	Er	со	Communication Error between Micom of Main PCB and Display Micom	Poor Communication connection,Poor TR of Transmitter and Receiver Tx/Rx between display and main board



Freezer Sensor Error	Er	FS	Short or Disconnection of Freezer Sensor

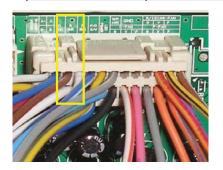


Conn 4 Main PWB BL/WH – BL/WH

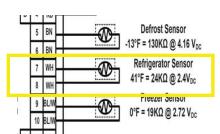


(1) To (2)	Result
-22°F / -30°C	40.5 ~ 38.5 κΩ
-13°F / -25°C	30.5 ~ 28.5 kΩ
-4°F / -20°C	23 ~ 21.5 kΩ
5°F / -15°C	17.5 ~ 16.5 kΩ
14°F / -10°C	13.5 ~ 12.5 kΩ
23°F / -5°C	10.5 ~ 9.5 kΩ
32°F / 0°C	8 ~7.5 kΩ

Refrigerator Sensor Error	Er	rS	Short or Disconnection of Refrigerator Sensor
OCHOOL ELLOI			of Horngorator oc



CON 4 Main PWB White - White

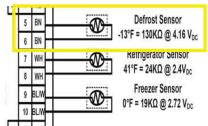


Temperature	Result
23°F / -5°C	38.5 ~ 36.5 kΩ
32°F / 0°C	30.5 ~ 29.5 kΩ
41°F / 5°C	24.5 ~ 23.5 kΩ
50°F / 10°C	20 ~ 19 kΩ
59°F / 15°C	16 ~15.5 kΩ

Defrosting Sensor Error Er	dS	Short or Disconnection of Defrosting Sensor
-------------------------------	----	---



Defrost Thermistor CON 4 Main PWB BN-BN



TEMP	RESISTANCE	VOLTAGE
-39°F (-40°C)	225.1 ㎏	4.48 V
-30°F (-35°C)	169.8 ⋈	4.33 V
-21°F (-30°C)	129.3 ⋈	4.16 V
-13°F (-25°C)	99.30 №	3.95 V
-4°F (-20°C)	76.96 ㎏	3.734 V
5°F (-15°C)	60.13 ㎏	3.487 V
14°F (-10°C)	47.34 kΩ	3.22 V
23°F (-5°C)	37.55 kΩ	2.95 V
32°F (0°C)	30 kΩ	2.67 V
41°F (5°C)	24.13 ㎏	2.40 V
50°F (10°C)	19.53 ㎏	2.14 V
59°F (15°C)	15.91 ㎏	1.89 V
68°F (20°C)	13.03 №	1.64 V
77°F (25°C)	10.74 №	1.45 V
86°F (30°C)	8.89 kΩ	1.27 V
95°F (35°C)	7.40 ㎏	1.10 V
104°F (40°C)	6.20 ㎏	0.96 V

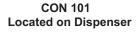
Icing Sensor
Error

Er

IS

Short or disconnection of the sensor about Ice maker (Icing sensor, Ice maker sensor)

From Small.



Icemaker Compartment Temp Sensor BL 1 BL 2 WH, 3 BK 3 BO 4 WH, 5 RD 6 CON101

CON101

1 – GND 2 – 2.68 V_{DC} = 19.96 $K\Omega$ @ 0°F

3 - RX (Var. V_{DC})

 $4 - TX (Var. V_{DC})$

5 - Grd. Ref.

Display PWB

6 - 12 V_{DC} Input

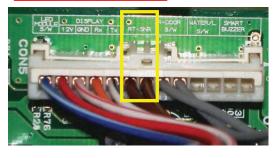
CON102 Pins 8, 10 & 12 / 5V_D



Press <u>Ice Plus</u> and <u>Freezer</u> simultaneously for Error Display

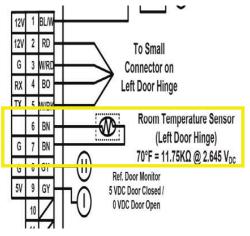
CON5 Main PWB BN-BN

Same values as Refrig Thermistor Located



68°F (20°C)	13.03 №	1.64 V
77°F (25°C)	10.74 №	1.45 V
86°F (30°C)	8.89 №	1.27 V
95°F (35°C)	7.40 №	1.10 V
104°F (40°C)	6.20 №	0.96 V

Er

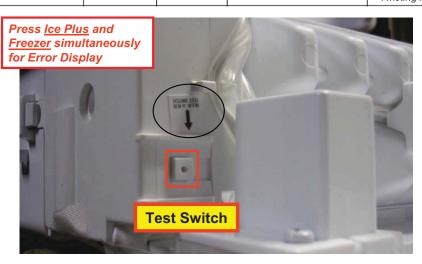


Ice maker kit defect

Ιt

Other Electric system error such as moter, gear, Hall IC, operation circuit within I/M kit

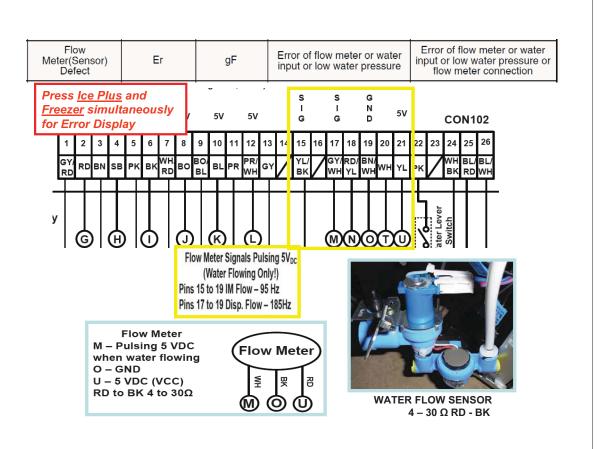
When the ice does not drop even when the I/M Test S/W is pressed (same as model applied Twisting Ice Maker before)



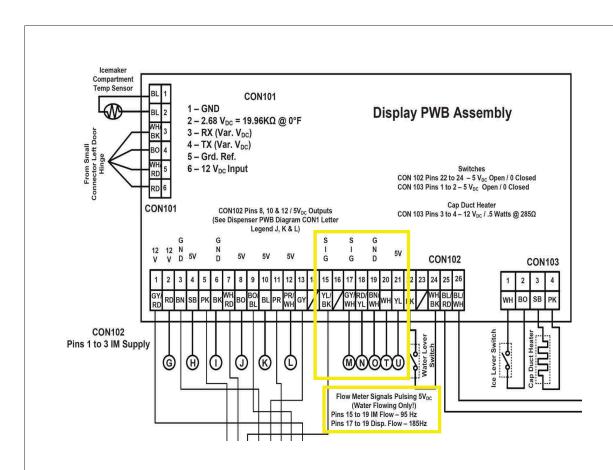
PRESS & HOLD Test Switch 3 Seconds to initiate Test Mode I/M has no power indicator light. Simple power test: turn I/M Off back On should hear motor alignment briefly.

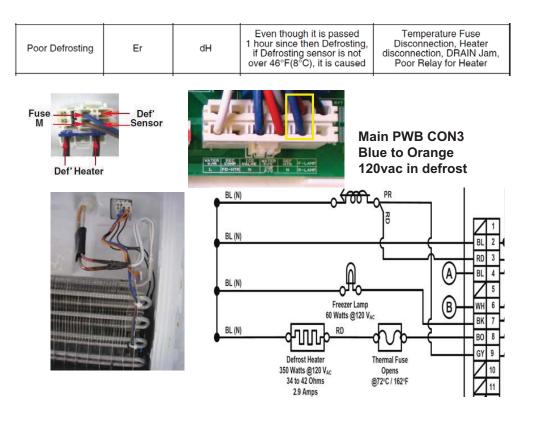
See I/M Section

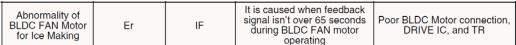
Display & Icemaker PWB Diagram | September | Septembe



Icemaker PWB (PCB) Assembly
French Door Twist Tray Icemaker



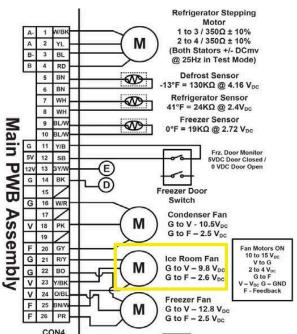






Rd/YL - YL/BK = 12 V (G - V)Rd/YL - BN/WH = 2.5 V (G - F)

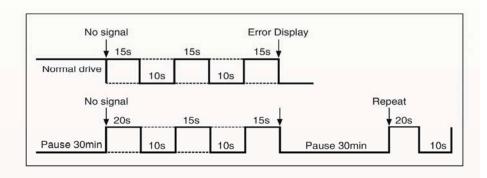
V-G = Supply Voltage F-G = Signal Voltage



10-4 How to check the Fan-Error

(1) EBR673480

After sending a signal to the fan, the MICOM checks the BLDC fan motor's lock status. If there is no feedback signal from the BLDC fan, the fan motor stops for 10 seconds and then is powered again for 15 seconds. To determine that there is a fan motor malfunction, this process is repeated 3 times. If the fan motor is determined to be defective, the error code will be shown in the display for 30 minutes. At this point, the process will be repeated until the fan motor operates normally. If normal operation is achieved, the error display is erased and the MICOM is reset automatically.



Abnormality of BLDC FAN Motor for Freezer

Er

FF

CF

It is caused when feedback signal isn't over 65 seconds during BLDC FAN motor operating

Poor BLDC Motor connection, DRIVE IC, and TR

Poor BLDC Motor connection,

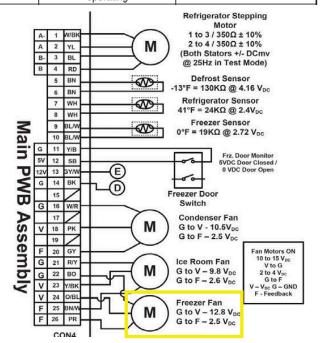
DRIVE IC, and TR



BO - BO/BL = 15 V (G - V)BO - PR = 2.5 V (G - F)

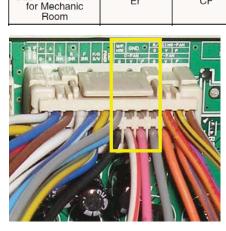
V-G = Supply Voltage F-G = Signal Voltage

Abnormality of BLDC FAN Motor



It is caused when feedback signal isn't over 65 seconds

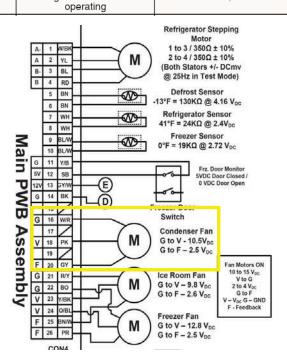
during BLDC FAN motor

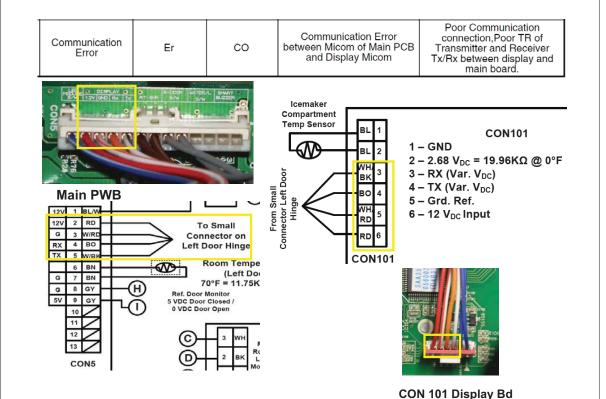


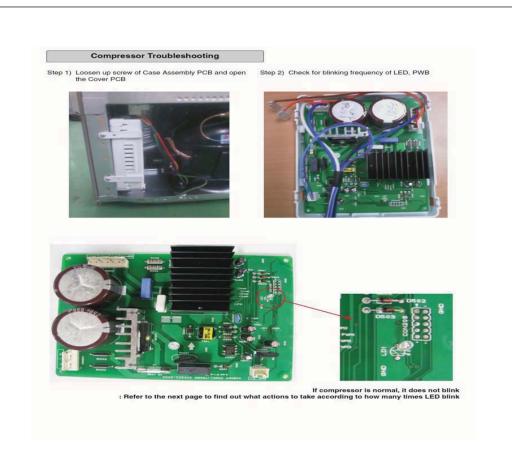
Fr

PK - WH/RD = 10.5 VDC(V - G) GY - WH/RD = 2.5 VDC(F - G)

V-G = Supply Voltage F-G = Signal Voltage







Actions to take according to Led blinking frequency

No	LED operating condition	Cause	Service guideline
1	LED two - time repetiton (Stroke Trip) on - on - off - on - on - off - on - on	PCB Parts defect or Compress or Connector miss connecting (Piston over run)	Please check, Whether connector of connector of sattacher rightly or not, after power off After the first action, You check on normal operation of compressor. If the same symptom arises after the second action, replace PCB
2	LED four - time repetiton (Overload Protect)	Outlet clogging	After resetting power, check if it is running normal If the same symptom arises after the first action If the same symptom arises after the second action, replace compressor
3	LED five - time repetiton (Piston Lock Trip)	Piston constraint	After resetting power, check if it is running normal If the same symptom arises after the first action If the same symptom arises after the second action, replace compressor
4	LED six - time repetiton (Current Trip)	Circuit over current error Or cycle error	After resetting power, check if it is running normal If the same symptom arises after the first action If the same symptom arises after the second action, replace compressor
5	LED seven- time repetiton (IPM Fault Trip)	PCB parts defect (IPM)	After resetting power, check if it is running normal If the same symptom arises after the first action, replace PCB

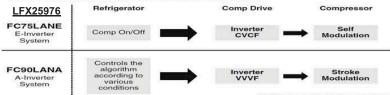
12. TROUBLESHOOTING

12-1 INFORMATION OF LINEAR COMPRESSOR

. The information tag provides compressor model, refrigerant, serial number and safety approval

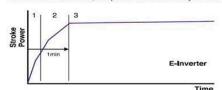


- There are two types of controllers used in the linear compressor system.
 The "E"-inverter system is used with the FC95LANE compressor.
 The "A"-inverter system is used with the FC90LANA compressor.



*VVVF : Variable Voltage Variable Frequency
**CVCF : Constant Voltage Constant Frequency

· To reduce noise level, the piston stroke is slowly increased to full power during start up.

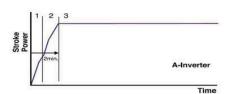


LFX25976

Step 1) Start up - Half stroke interval for first 1 second. Step 2) Ramp up - Stroke increases every 0.8sec until maximum stroke length is reached (about 1 min)

Step 3) CVCF interval - 180V / 60Hz

CVCF - Constant voltage constant frequency



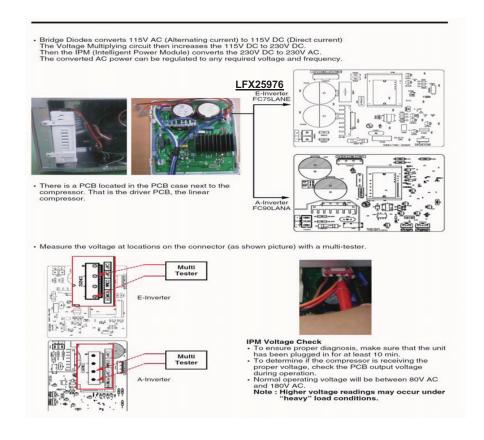
Step 1) Start up - Half stroke interval for first 20 seconds.

Step 2) Ramp up - Stroke increases until maximum stroke length is reached (about 1 min, 40 sec)
Step 3) VVVF interval - target voltage and frequency controlled by Control Board signals

VVVF - Variable Voltage Variable frequency

There are 6 protection logics designed to protect the linear compressor system. When a failure is detected, the compressor will shut and will try to restart after a set period of time for each type of failure. The LED located on the inverter drive PCB will flash the appropriate code to indicate the detected failure. This code will continue to flash until the unit is disconnected from the power source.

	Арр.	Requirement	Waiting Time	The number of LED flashes
FCT0	A-Inv.	Compressor current and voltage error.	20 sec.	1
Stroke Trip	E-Inv. A-Inv.	Piston stroke overrun detected.	1 min.	2
Locked Piston Trip	E-Inv. A-Inv.	Piston is locked.	2 min. 30 sec.	5
Current Trip	E-Inv. A-Inv.	Current overload detected.	6 min.	6
IPM Fault	E-Inv. A-Inv.	High current detected due to IPM failure.	20 sec.	7
Communication Error	A-Inv.	Miscommunication with Refrigerator	0	8

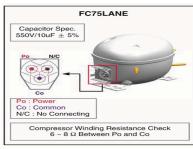


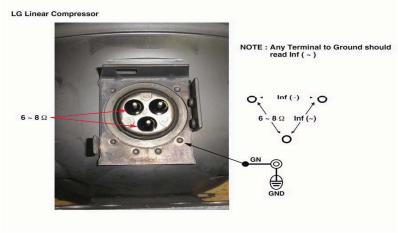
What to check before replacing Compressor

- 1) Check Voltage readings at Compressor Driver PWB
 - A) Do you have 120vac to CON201?
 B) Do you have a variable 5vdc at CN2?

 - C) Have you checked run cap with a capacitor checker?
 D) After 10 minute run time is compressor voltage between 80vac to 180vac? Will vary with load.
 - E) Apply 120vac directly to compressor does it run? Do you feel heat on the discharge line?

Note: Compressor will be slightly noisier running at full







LSE3092ST Slide In Range

Features

Extra Large Oven Capacity 5.4 cu ft
Brilliant Blue Interior
5 Surface Elements / 2 Expandable
Lower Drawer is a Baking Drawer
Dual True Convection with 3 Modes
Gliding and Split Rack
WideView™ Window



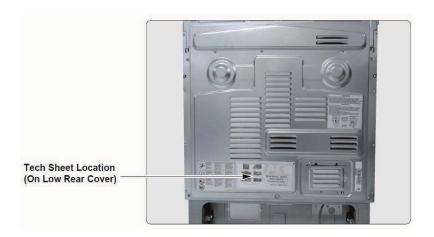
Operational Features

- •Large Oven is Electronically Controlled.
- Surface Elements are conventional*.
- •Lower Baking Drawer is conventional*.
- •If Main Power Board, Power Supply Board, Safety Thermostat Opens or connecting wiring fail, the large oven & clock will not operate! The surface elements and the lower baking drawer will continue to operate.
- •During Self Clean the (BK) L2 power is interrupted to the surface elements and lower baking drawer via relays! They will not operate during Self Clean!
- •Conventional* Using Mechanical Switches!



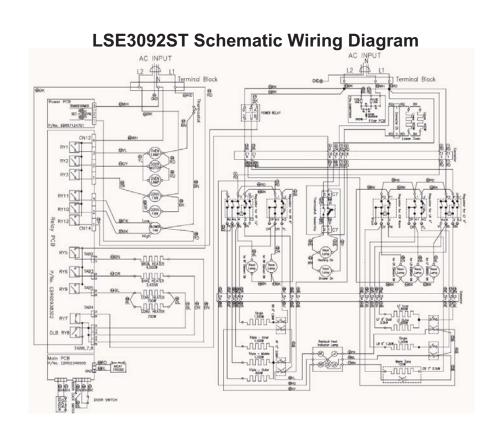
LSE3092ST Slide In Range

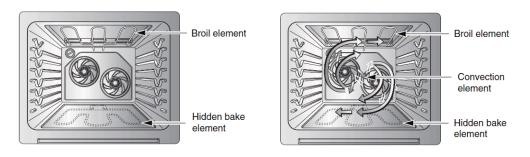




SPECIFICATIONS

	Model Number	LSE3092ST Convection		
	Category			
Overall Width		30"		
	Installation type	Freestanding		
	Color availability	STS		
Control	Oven	Glass Touch		
	Cooktop	Knob		
	Display	Scroll VFD		
	Electronic clock & timer	Yes		
	Control lock capability	Yes		
	Audible preheat signal	Yes		
	Special function	Option(6 categories)		
	-,	Convection auto conversion 0n/0ff		
		Thermostat Adjustment		
		3. Language -English or Spanish		
		Preheating alarm light On/Off		
		5. Beeper Volume		
		(loud, normal, low, mute)		
		6. Temperature unit (F / C)		
		, , ,		
0 11	Material	Ceramic glass		
Cooktop	# of element	5		
	LR	6"-1.2kw		
Power	RR	6"-1.2kw		
	CR	warming zone - 100w		
	LF	9"Dual(6"/9" - 1.4/3.0kw)		
	RF	12"Triple(6"/9"/12"-1.1/2.2/3.0kw)		
Oven	Capacity(cu.ft)	5.4		
Oven	Broil element	4000 watts		
	Bake element	3400 watts		
	Convection System	Yes		
	 Convection element 	Yes (700w x 2, 240v)		
	Interior oven light	120V, 40Watts		
	Proof	Yes		
	Cook & warm	Yes		
	Favorites	Yes		
		1. Bread 2. Meat 3. Chicken		
	Healthier Roast	Yes (1.Beef, 2.Pork, 3.Lamb, 4.Chicken, 5.Turkey)		
	Door lockout	Yes		
	Broiler pan	Yes		
Drawer	Туре	Oven drawer		
	Element	1,200 watts (Upper heater - 400W, Lower heater - 800W)		
	Rack	Yes		
Dimensions	Oven Interior(W x H x D)	24 1/2 x 19-11/16		
(inch)	Exterior - Width	29 7/8		
,,	Exterior - Height	36 (cooktop)		
	Exterior - Depth	26-3/8 (Door), 28-7/8 (with handle)		
	Net weight: Lbs (Kg)	216 lbs (98kg)		
Power	Rating	15.3Kw(120/240V) / 11.5Kw(120/208V)		
owei				

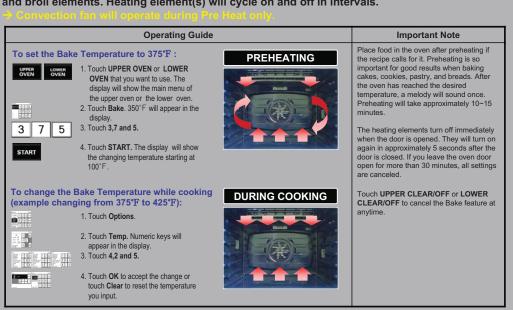






Internal Use Only

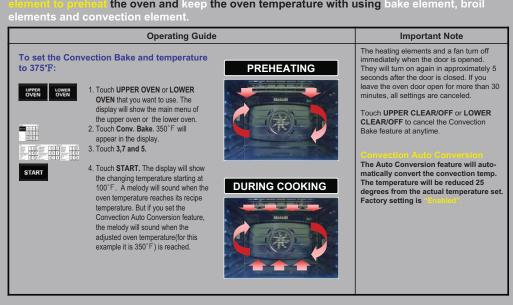
The oven can be programmed to bake at any temperature from 170°F to 550°F. Default temperature is 350°F (175°C). It uses the outer broil element, bake element, convection element to preheat the oven and keep the oven temperature with using the bake element and broil elements. Heating element(s) will cycle on and off in intervals.



Convection Bake

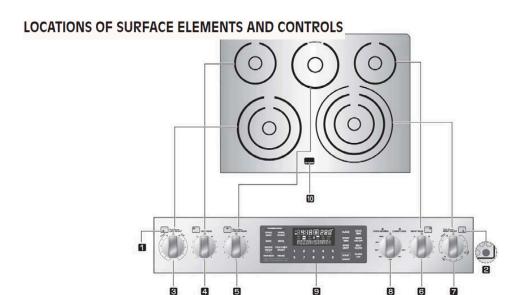
Internal Use Only

Convection baking uses a fan to circulate the oven's heat evenly and continuously within the oven. This improved heat distribution allows for even cooking and excellent results using multiple racks at the same time. Foods cooked on a single oven rack will generally cook faster and more evenly with Convection Bake. It uses the outer broil and convection element to preheat the oven and keep the oven temperature with using bake element, broil elements and convection element.



BASIC OPERATING INSTRUCTIONS

SEE USER'S GUIDE FOR DETAILED **OPERATING INSTRUCTIONS!**



- SURFACE COOKING AREA LOCATOR: Identify subject to control Right Rear Element. ☑ RIGHT FRONT (TRIPLE) CONTROL KNOB: Use
- LEFT FRONT (DUAL) CONTROL KNOB: Use to control Left Front Element.
 - LOWER OVEN CONTROL KNOB: Use to control LOWER OVEN.
- ☑ LEFT REAR (SINGLE) CONTROL KNOB : Use to ☐ ELECTRIC OVEN CONTROL : Use to control
 - HOT SURFACE INDICATOR LIGHT: It will glow as long as any surface cooking area is too hot to touch.
- CENTER (WARM) CONTROL KNOB: Use to control Center Element.

☑ ELEMENT ON/OFF INDICATOR LIGHT: Shows

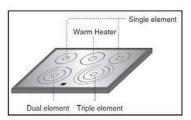
COOKING AREAS

The cooking areas on your range are identified by permanent circles on the glass cooktop surface. For the most efficient cooking, fit the pan size to the element size.

Pans should not extend more than 1/2 to 1-inch beyond the cooking area.

When a control is turned on, a glow can be seen through the glass cooktop surface. The element will cycle on and off to maintain the preset heat setting, even on Hi.

For more information on cookware, refer to Cookware Recommendations.



USING THE PROPER COOKWARE

Using the right cookware can prevent many problems, such as food taking longer to cook or achieving inconsistent results. Proper pans will reduce cooking times and cook food more evenly. Stainless steel is recommended.

Check pans for flat bottoms by using a straight edge or ruler

- Place a ruler across the bottom of the pan.
- Hold it up to the light.
- No light should be visible under the ruler.



NOTE

- Do not use a small pan on a large element. Not only does this waste energy, but it can also result in spillovers burning onto the cooking area which requires extra cleaning.
- Do not use non-flat specialty items that are oversized or uneven such as round bottom woks, rippled bottom, and/or oversized canners and griddles.
- Do not use foil or foil-type containers. Foil may melt onto the glass. If metal melts on the cooktop, do not use. Call an authorized Service agent.

Recommended	Incorrect
Flat bottom and straight sides.	Curved, grooved, or warped pan bottoms. Pans with uneven bottoms do not cook efficiently and sometimes may not boil liquid.
Heavy-gauge pans.	Very thin-gauge metal or glass pans.
Pan sizes match the amount of food to be prepared and the size of the surface element.	Pans are smaller or larger than the element.
Weight of handle does not tilt pan. Pan is well balanced.	Cookware with loose or broken handles. Heavy handles that tilt the pan.
Tight-fitting lids.	Loose-fitting lids.
Flat bottom woks.	Woks with a ring-stand bottom.

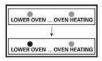
USING THE LOWER OVEN

The purpose of the Lower Oven is to bake foods using the same cooking times and temperatures you would in a standard oven. Foods ideal for baking in the lower oven drawer include pizza, frozen foods, casseroles, biscuit, rolls and many desserts.

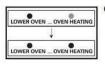
To set the Lower oven control:



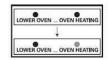
- 1 Push the knob in.
- Turn the knob to any desired setting between Warm to 450°F.



When the knob is in the on position, the "LOWER OVEN" indicator light will glow. It remains ON until the knob is moved to the OFF position.



The "OVEN HEATING" indicator light glows when heating elements in the drawer are active. Food can continue to cook when the indicator light is on.



Preheat is complete after the "OVEN HEATING" signal has turned off.

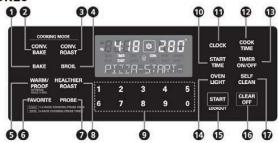
NOTE:

- The Lower Oven does not shut off automatically.
- The maximum food height that can be placed in the Lower Oven is 4 inches.
- When turning the knob to use WARM function, check the "OVEN HEATING" signal is ON.
- Opening the door may cause heat loss. Repeatly opening may result in poor cooking results.

The Lower Oven uses less energy then a standard oven. It takes more time for preheating than a standard oven. Allow the following approximate times for preheating:

Lower oven Temperature	Preheat Time	
Warm	10 Minutes	
350°F	20 minutes	
425°F	30 minutes	





- BAKE: Use to select the Bake function.
- 2 CONV. BAKE : Use to select the Conv. Bake function
- 3 CONV. ROAST: Use to select the Conv. Roast funtion.
- A BROIL : Use to select the Broil funtion.
- S WARM/PROOF (OPTIONS)
 - Use to select the Warm/Proof funtion.
 Use to change the special settings
 (Press and hold for 3 seconds)
- 6 FAVORITE: Use to select the Favorite Cooking.
- PROBE : Use to select the Probe function.
- 8 HEALTHIER ROAST : Use to select Healthier Roast function.
- NUMBER PADS : Use to enter temperature and all times.
- START TIME : Use to set Delay Time (Bake and Conv Bake)
- 11 CLOCK : Use to set the Time of Day.
- COOK TIME: Use to set the amount of cook time. The oven will shut off automatically.

- TIMER ON/OFF: Use to set or cancel the timer.
- OVEN LIGHT: Use to turn the oven lights on and of
- START: Use to START all oven functions. To activate CONTROL LOCKOUT press and hold fo 3 seconds.
- GCLEAR OFF: Use to stop cooking, cancel settings
- SELF CLEAN : Use to select the Self Cleaning

NOTE:

If F- and a number appear in the display and the oven control signals, this indicates a function error code.

See page 46.
Touch the CLEAR/OFF pad. Allow the oven to cool for one hour. Put the oven back into

operation.

If the function error code repeats, disconnect the power to the oven and call for service.

If your oven was set for a timed oven

If your oven was set for a timed oven operation and a power outage occurred, the clock and all programmed functions must be

The time of day will flash in the display when there has been a power outage.

OWNER'S MANUAL INFO

SPECIAL FEATURES

Setting the CLOCK (12Hr / 24 Hr)
TIMER ON/OFF
Setting CONVECTION AUTO Conversion
Adjusting the OVEN THERMOSTAT
Selecting LANGUAGE
Setting Preheating Alarm Light ON/OFF
Adjusting BEEPER volume
Selecting Fahrenheit or Celsius Temperature

OPERATING

Bake, Broil, Dual Convection Bake, Convection Roast Timed Cook, Delayed Timed Cook, Warm, Proof, Healthier Roast, Meat Probe, The Favorite, Oven Lockout, Self Clean Also CARE & CLEANING

NOTE: Step by Step Instructions are located in the **OWNER'S MANUAL**

CLOCK

How to set the Clock

The clock must be set to the correct time of day for the automatic oven timing functions to work properly. The time of day cannot be changed during a timed baking or Self Clean cycle.

CLOCK

● Touch the CLOCK pad once to

1 2 3

② Touch the number pad to enter the time. Touch the number pad with the correct time of day. For example, to set 12:34, touch the number pad 1, 2, 3 and 4. If number pad is not touched within 30 seconds after you touch the CLOCK pad, the display reverts to the original setting. If this happens, touch the CLOCK pad and reenter the time of day.



Touch START. This enters the time and starts the clock.

To check the time of day when the display is showing other information, simply touch the **CLOCK** pad.

How to change hour mode on Clock (12HR or 24HR)

Your control is set to use a 12-hour clock. If you would prefer to have a 24-hour time clock, follow the steps below.



Touch the CLOCK pad for 3 seconds.



2 Touch the number 1 pad for 12-hour, 2 pad for 24-hour.



Touch the START pad to accept the desired change.

Power outage

If a flashing time is in the display, you have experienced a power failure. Reset the clock.

Touch the **CLOCK** pad once to reset.Enter the correct time of day by touching the appropriate number pads. Touch the **START** pad.

How to set convection auto conversion function

When using convection bake and roast, the Convection Auto Conversion feature will automatically convert entered regular baking temperatures to convection baking temperatures.

This feature is activated so that the display will show the actual converted (reduced) temperature. For example, if you enter a regular recipe temperature of 350°F and press the START function, the display will show the converted temperature of 325°F.



Touch and hold the WARM/PROOF pad for 3 seconds. "AUTO" will appear in the display.



Touch the # 1 pad to ENABLE or touch the # 2 pad to DISABLE.



Touch the START pad to accept the change.

How to adjust the oven thermostat

You may find that your new oven cooks differently than the one it replaced. Use your new oven for a few weeks to become more familiar with it. If you still think

To Adjust the Oven Temperature your new oven is too hot or too cold, you can adjust the thermostat yourself.

Do not use thermometers, such as those found in grocery stores, to check the temperature setting of your oven. These thermometers may vary 20-40 degrees.

NOTE:

This adjustment will not affect the broiling or the Self Clean temperatures. The adjustment will be retained in memory after a power failure.

The oven temperature can be increased (+) or decreased (-) as much as 35°F or 19°C.

Once the temperature is increased or decreased, the display will show the adjusted temperature until it is readjusted.

NOTE:

The thermostat adjustment for Bake will also affect Convection Bake or Convection Roast.



- 1 Touch and hold the WARM/PROOF pad for 3 seconds. "AUTO" will appear in the display.
- 2 Touch the WARM/PROOF pad 1 time and "Adj" will be displayed.



- 13 Using the number pad enter the temperature correction you wish to adjust.
 - For example, to adjust the oven temperature 15 degrees, touch 1 and 5.



◆ Touch WARM/PROOF once to increase (+) or twice to decrease (-) the temperature.



1 Touch the START pad to accept the change.

How to select fahrenheit or celsius temperature

Your oven control is set to use the Fahrenheit temperature. This can be changed to Celsius.

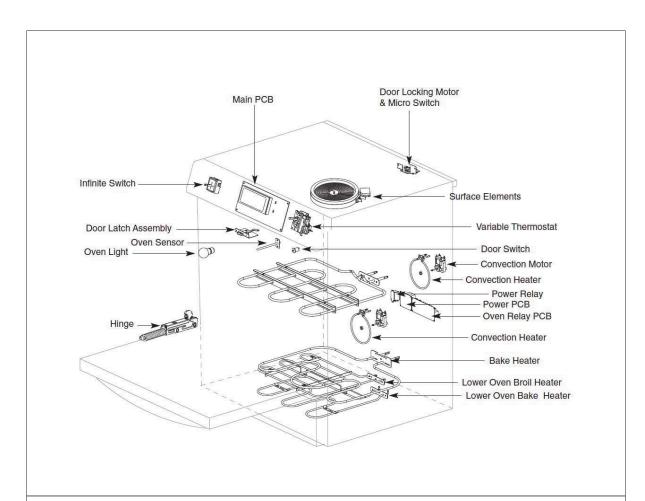


- Touch and hold the WARM/PROOF pad for 3 seconds. "AUTO" will appear in the display.
- 2 Touch the WARM/PROOF pad 5 times and "UNIT" will be displayed.





- Touch the # 1 pad for F (Fahrenheit) or touch the # 2 pad for C (Celsius).
- 4 Touch the **START** pad to accept the change.



Before Servicing Disconnect Power



REMOVING COOKTOP

Rear Screws



Remove 2 side screws



REMOVING COOKTOP

DISCONNECT LEFT & RIGHT CONNECTORS





COOKTOP CAN NOW BE REMOVED

OVEN VENT (Below the Cooktop!)





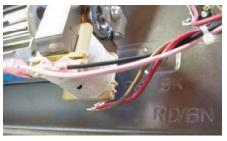
OVEN SAFETY THERMOSTAT & VENT MOTOR

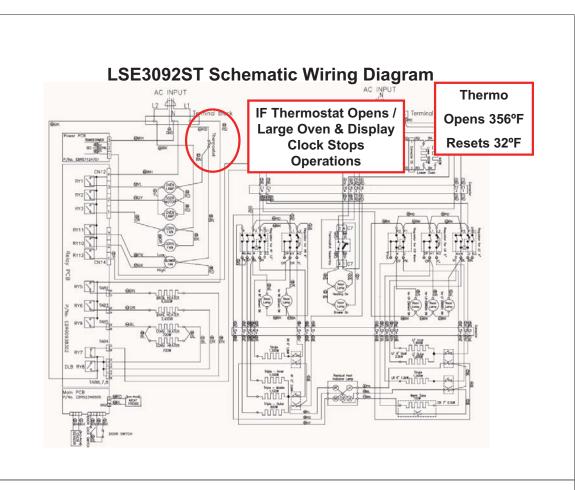


Fan Operating Temp Ranges

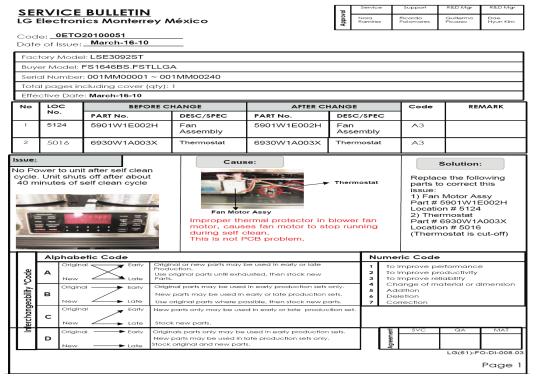
- Fan ON 220°F (Display)
- Fan OFF 210°F (Measured)

2 Speed Fan / Operating Voltage 120 VAC



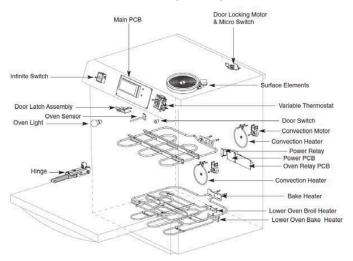


OVEN SAFETY THERMOSTAT & VENT MOTOR



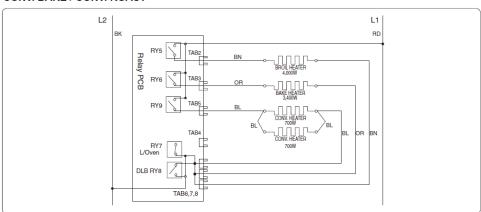
Before Servicing Disconnect Power

TROUBLESHOOTING OVEN USING STRIP CIRCUIT DIAGRAMS

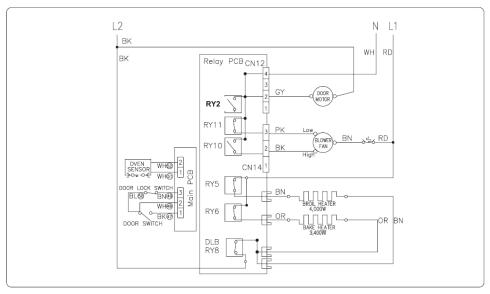


LSE3092ST Slide In Range

CONV. BAKE / CONV. ROAST

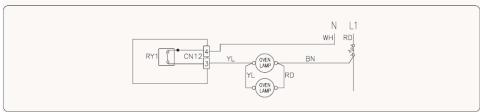


SELF CLEANING

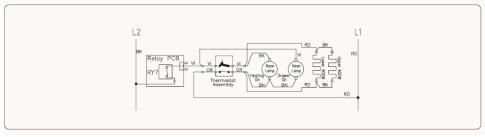


LSE3092ST Slide In Range

OVEN LIGHT

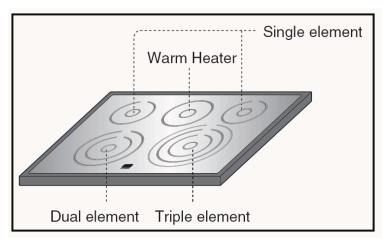


LOWER OVEN DRAWER



Before Servicing Disconnect Power

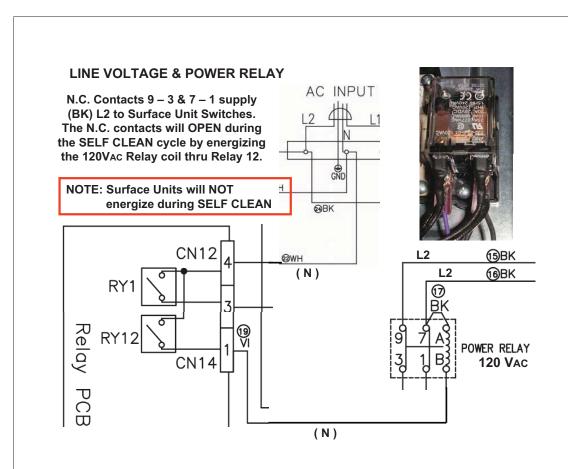
TROUBLESHOOTING SURFACE ELEMENTS USING STRIP CIRCUIT DIAGRAMS



LSE3092ST Surface Element Controls

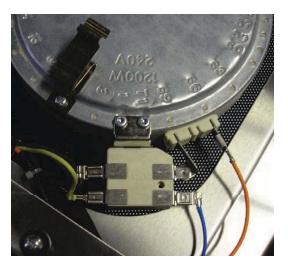


NOTE: Wire colors are noted by the connectors!

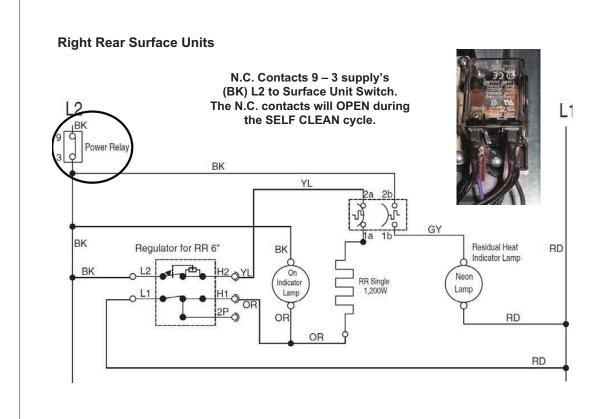


Left Rear / Right Rear Surface Units (Single Elements)

		Position	Wire color
	3 1-H1	1 - H1	OR-OR
LR/RR	2-P	2 - P	-
Switch	0	3 - L1	RD+RD
	5-L2	4 - H2	YL
	3-L1 4-H2	5 - L2	BK-BK

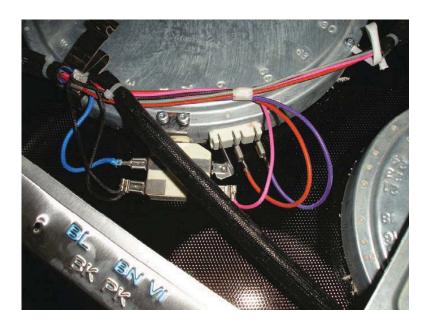


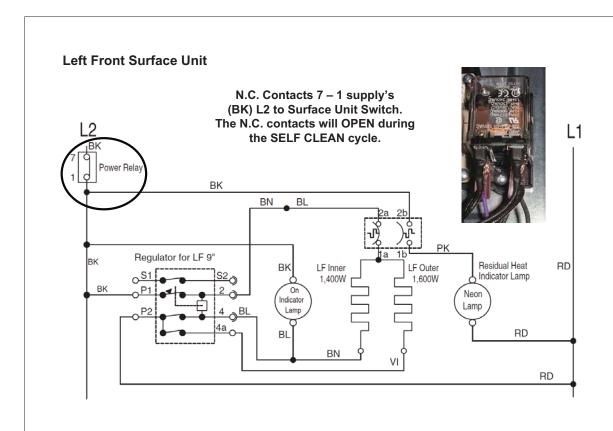
Left Rear Element Shown / Blue Wire goes to Hot Surface Indicator



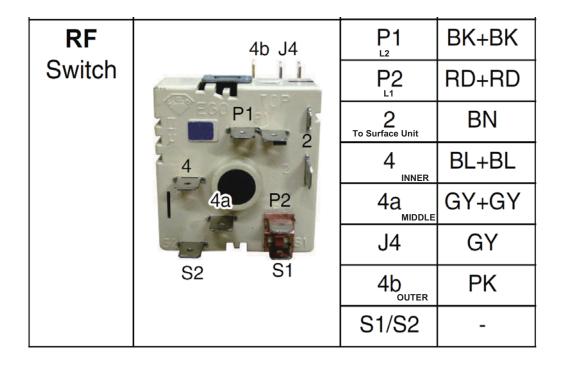
Left Front Surface Unit (Dual Element)

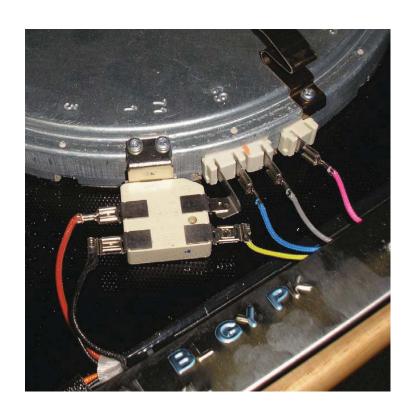
LF Switch	P1	BK+BK		
	77.0 17.0	P2	RD+RD	
		2	BN	
		4	BL+BL	
	SHEP BAR SE	4a	VI OUTER	
	S2 S1	S1/S2	-	

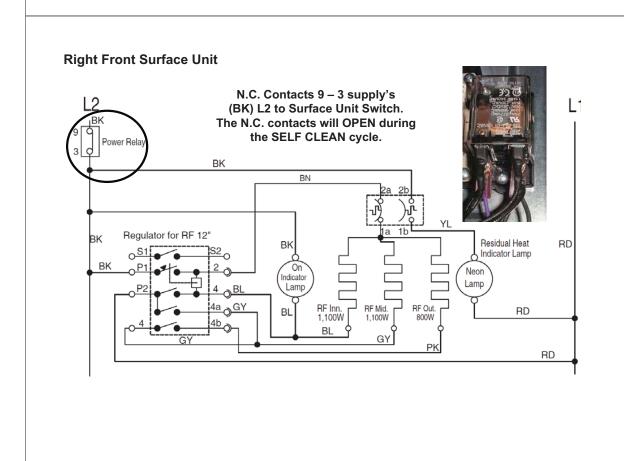




Right Front Surface Unit (Triple Element)

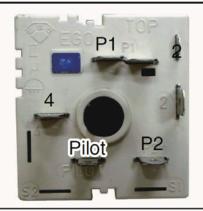




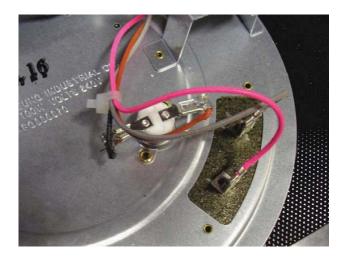


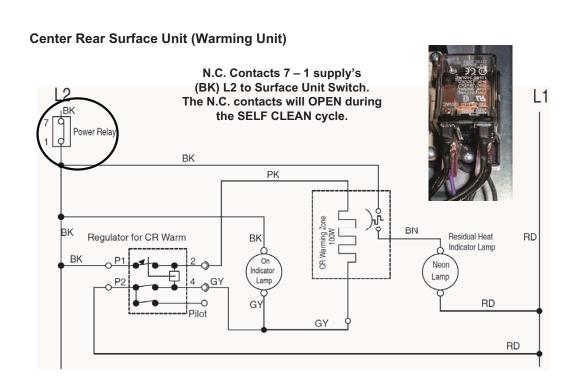
Center Rear Surface Unit (Warming Unit)

CR Switch



P1	BK+BK
P2	RD
2	PK
4	GY+GY
Pilot	-





LSE3092ST Slide In Range

Failure Codes

- F1 Oven Temperature Sensor is Open or Disconnected
- F2 Oven Temperature is Shorted
- F3 Touch Pad is disconnected or has failed
- F5 Shorted or Open Meat Probe Sensor
- F6 Oven is overheating, too hot, or temperature sensor failure
- F10 Door Locking Error
- F11 Main Oven Heating Failure Temperature increase not detected
 - "For all F Code Failures refer to the Tech Sheet or Service Manual"

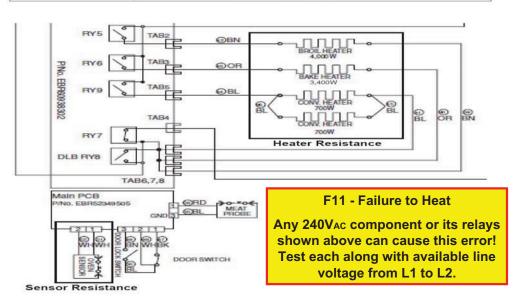
LSE3092ST Slide In Range

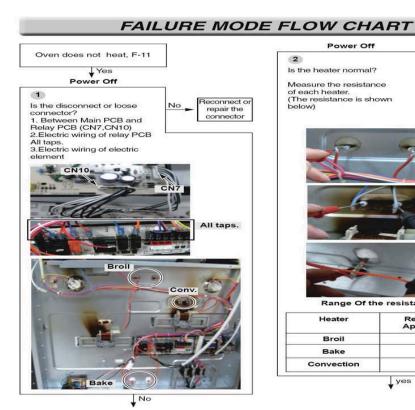


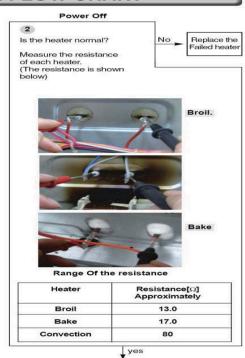
F11 Error Display / Main Oven Heating Failure
Diagnostic Example!

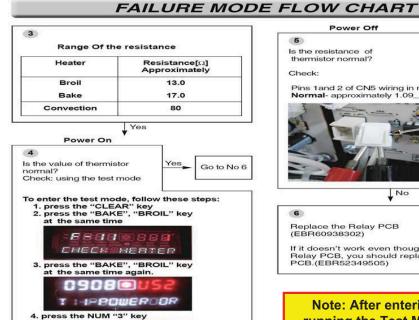
FAILURE MODE FLOW CHART

Symptom	Check Point	
1. No heating	1.Check Electric Wiring	
2. F11	Check Heater's Resistance.	
10.460	3.Check the Sensor.	



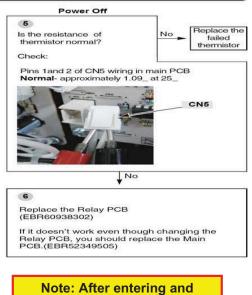






Normal: the sensor value is from 70_ to 90°F at 25°C.

No



running the Test Mode, the Failure Code is cleared!!

LSE3092ST Slide In Range







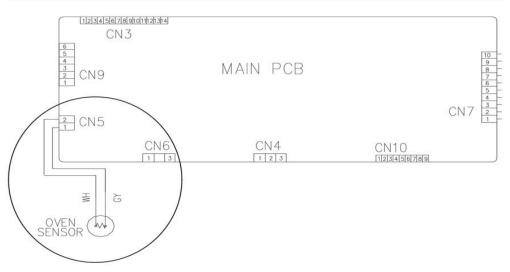
Display AFTER Depressing BAKE & BROIL to Enter Test Mode

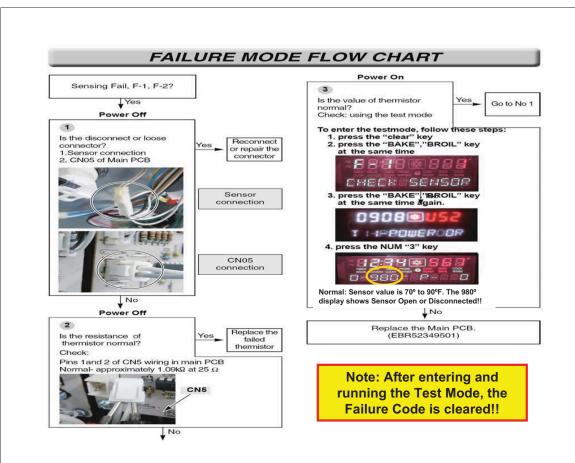
F1 Sensor Failure / Main Oven Heating Failure

2nd Diagnostic Example!

FAILURE MODE FLOW CHART

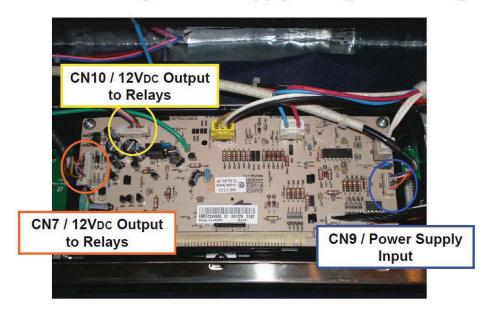
Symptom	Check Point
Sensing Fail 1.Check the Electric Wiring	
2. F-1	2.Check the Test Mode
3. F-2	3.Check the Sensor's Resistance





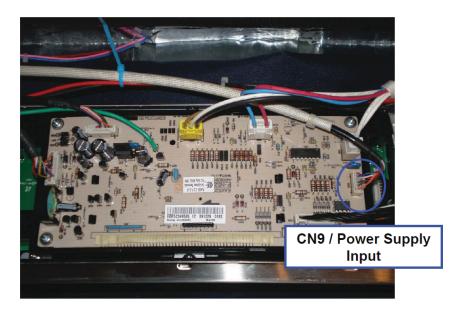


Main PWB / Rear View / In the Console



Main PWB / Rear View / In the Console

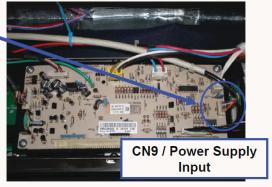
LSE3092ST Range Power Supply Voltages & Testing



Main PWB / Rear View / In the Console



Power Supply Board



Main PWB / Rear View

LSE3092ST Range Power Supply Voltages & Testing

CN9 / Wiring Colors & Voltages

Pin1 - RD or OR (Not Used!)

Pin2 - BL or GN - 12 to 15VDC

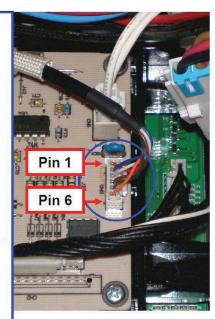
Pin3 - WH or BN - GND

Pin4 – BN or WH - (-24 to -35VDC)

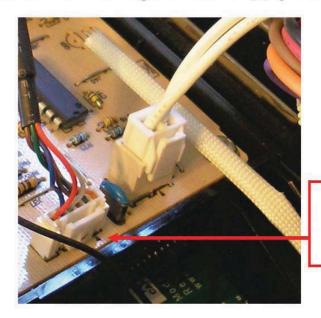
Pin5 - GN or BL - 3.4 to 4.6 VAC / Pins 5 to 6

Pin6 - OR or RD - 3.4 to 4.6 VAc / Pins 5 to 6

(These voltages supply the control board, which enables this board to operate the clock; control the Oven Lights, Fans, Bake, Broil, Convection, Self Clean, Door Lock Motor & Power Relay via the relays on the Relay Board.)



Main PWB / Rear View



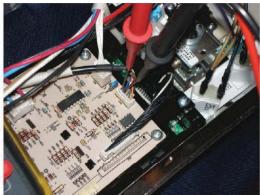
CN9 Pin 1
The Arrow Point is the reference pin.
Always LOOK for this!!

Main PWB / Rear View

LSE3092ST Range Power Supply Voltages & Testing



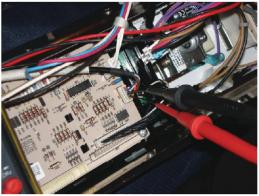
12 to 15 VDC (1st Voltage)



Measure from Pin 3 (GND) to Pin 2 15VDC



-24 to -35VDC (2nd Voltage)

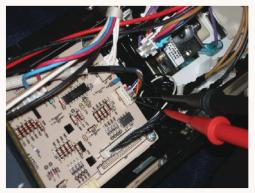


Measure from Pin 3 (GND) to Pin 4 (-24 to -35VDC)

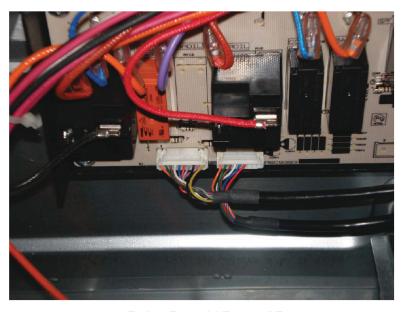
LSE3092ST Range Power Supply Voltages & Testing



3.4 to 4.6 VAC (3rd Voltage)

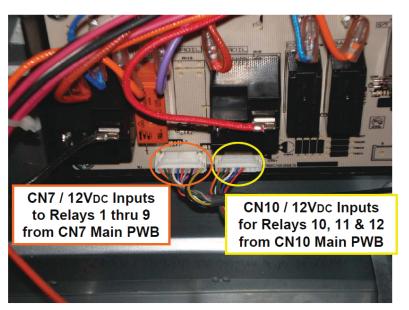


Measure from Pin 5 to Pin 6



Relay Board / Rear of Range

LSE3092ST Range Relay Board Voltages & Testing



Relay Board / Rear of Range

Relays

RLY 1 – Oven Lamps (Bulbs)

RLY 2 - Door Lock Motor

RLY 3 - Convection Fan Motors

RLY 5 - Broil Heater

RLY 6 - Bake Heater

RLY 7 – Lower Oven TStat (L2)

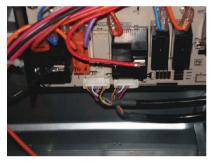
RLY 8 – Double Line Break (L2)

RLY 9 – Convection Heaters

RLY10 – Blower Fan (High)

RLY11 – Blower Fan (Low)

RLY12 – Power Relay



Relay Board / Rear of Range

Relay Coil Voltages

All Relay Coils are 12VDC coils. The Main Power Board (Console) provides the +12VDC & switches the GND side to each relay coil to energize or de-energize its load.

LSE3092ST Range Relay Board Voltages & Testing

CN7 (10 Pin Connector) Pin No Wire Color Function 12VDC for CN10 RLYs. OR 1 2 GN Relay 1 3 BN Relay 2 4 WH Relay 3 5 BL 12VDC for CN7 RLYs. RD Relay 5 7 GY Relay 6 BK Relay 7 9 PR Relay 9 10 YL Relay 8



Relay Board / Rear of Range

Relay Coil Voltages

All Relay Coils are 12VDC coils. The Main Power Board (Console) provides the +12VDC & switches the GND side to each relay coil to energize or de-energize its load.

CN10 (9 Pin Connector) Pin No Wire Color Function

1 OR Not Used!

2 GN Not Used!

3 BN Relay 12

4 WH Relay 10

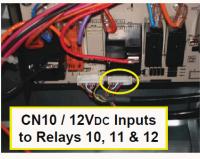
5 BL Relay 11

6 RD Not Used!

7 Not Used!

8 Not Used!

9 Not Used!

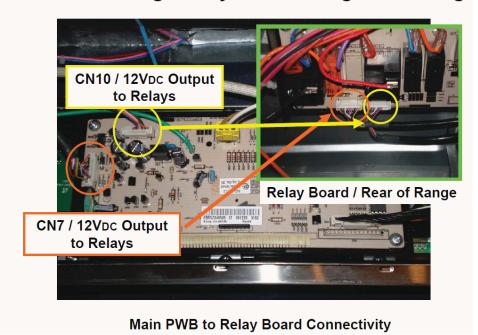


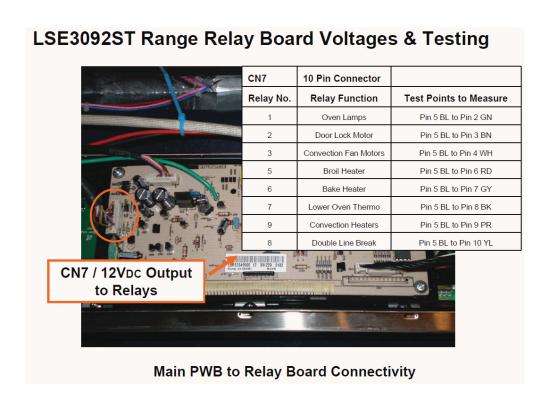
Relay Board / Rear of Range

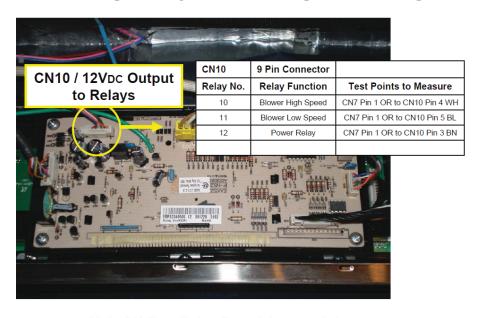
Relay Coil Voltages

All Relay Coils are 12VDC coils. The Main Power Board (Console) provides the +12VDC & switches the GND side to each relay coil to energize or de-energize its load.

LSE3092ST Range Relay Board Voltages & Testing

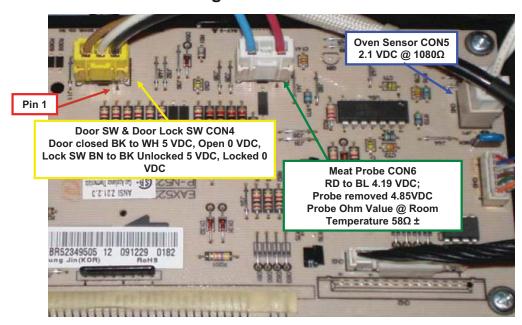




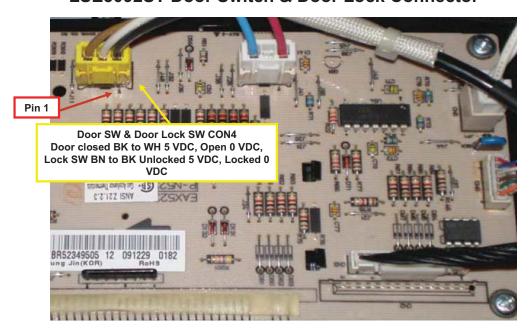


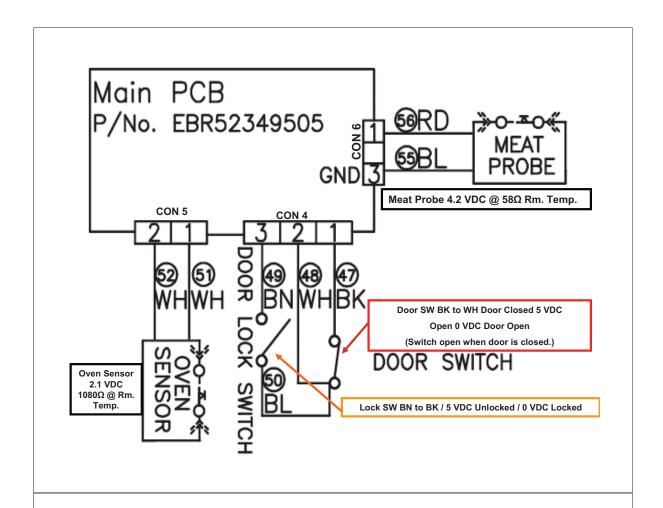
Main PWB to Relay Board Connectivity

LSE3092ST Range Power Board Connectors



LSE3092ST Door Switch & Door Lock Connector



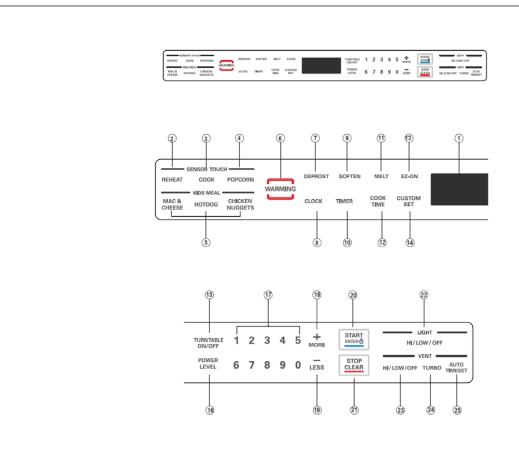


MICROWAVE WITH WARMING LAMP

LMHM2017**



SLIDE OUT VENT



- DISPLAY: The Display includes a clock and indicators to tell you time of day, cooking time setting, and cooking functions selected.
- REHEAT: Touch this pad to reheat Pizza Slice, Dinner Plate, Soup/Sauce, and Casserole. The oven's sensor will tell the oven how long to cook depending on the amount of humidity coming from the food.
- COOK: Touch this pad to cook Baked Potato, Vegetable, Casserole, Rice, and Frozen Entree. The oven's sensor will tell the oven how long to cook depending on the amount of humidity coming from the food.
- 4. POPCORN: Touch this pad when popping popcom in your microwave oven. The oven's sensor will tell the oven how long to cook depending on the amount of humidity it detects from the popcom.
- KIDS MEAL: Select type of dish to reheat HOT DOG, MAC & CHEESE or CHICKEN NUGGETS.
- WARMING: Touch this pad to keep hot cooked foods warm in your oven.
- 7. DEFROST: Touch this key to defrost food by entering weight, cook time or Quickly.

 Touch this key 2 times to Quick Defrost Cook.

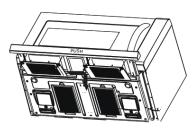
 Touch this key 3 times to Time Defrost Cook.
- 8. CLOCK: Touch this pad to enter the time of day.
- SOFTEN: Touch this pad to soften Butter, Ice Cream, Cream Cheese, and Frozen Juice.
- 10. TIMER: Touch this pad to set the kitchen timer.

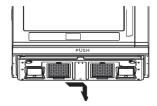
- MELT: Touch this pad to melt Butter / Margarine, Chocolate, Cheese, and Marshmallows.
- 12. COOK TIME: Touch this pad to to set a cooking time.
- EZ-ON: Touch this pad to set and start quickly at 100% power level.
- CUSTOM SET: Touch this pad to change the oven's default setting for sound, clock, disply speed, and defrost weight.
- TURNTABLE ON/OFF: Touch this pad to turn on/off the turntable. This option is not available in sensor cook, defrost, kids meal, soft and melt modes.
- POWER LEVEL: Touch this pad to select a cooking power level.
- NUMBER: Touch number pads to enter cooking time, power level, quantities, or weights.
- MORE: Touch this pad to add ten seconds of cooking time each time you press it.
- LESS: Touch this pad to subtract ten seconds of cooking time each time you press it.
- START/ENTER: Touch this pad to start a function. If you open the door after oven begins to cook, touch START/ENTER again.
- STOP/CLEAR: Touch this pad to stop the oven or to clear all entries.
- 22. LIGHT HI/LOW/OFF: Touch this pad to turn the light on high low or off
- 23. VENT HIGH/LOW/OFF: Touch this pad to turn the fan on high, low or off.
- VENT TURBO: Touch this pad to choose the most powerful fan speed.
- 25. **VENT AUTO TIME SET:** Touch this pad when setting ventilation time. (1, 3, 5, 10, and 30 minutes.)

CLEANING THE GREASE FILTERS

The grease filter should be removed and cleaned often, at least once a month.

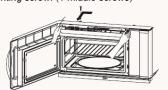
- 1. Disconnect power or unplug microwave oven.
- To remove the grease filter, open the Slide-out hood.
 Remove the screws holding the filter bracket in place.
 The filter can removed/replaced by sliding front.



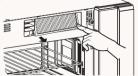


CHARCOAL FILTER REPLACEMENT

- 1. Unplug microwave oven or disconnect power.
- 2. Open the door and remove the one vent grille mounting screw. (1 middle screws)



3. Slide the grille left and tip forward, then lift out to remove.



4. Remove old filter.



COOKTOP/NIGHT LIGHT REPLACEMENT

1. Unplug microwave oven or disconnect power.



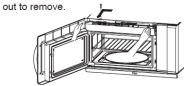
- 2. Remove the lamp cover mounting screws.
- 3. Replace bulb(s) with 20~40 watt appliance bulb(s).
- 4. Replace lamp cover, and mounting screws.
- 5. Plug in microwave oven or reconnect power.



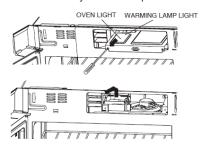


OVEN AND WARMING LAMP LIGHT REPLACEMENT

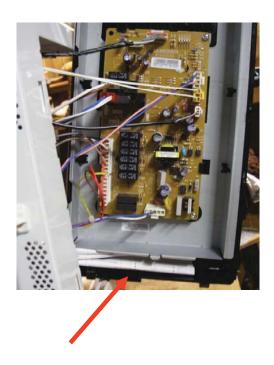
- 1. Unplug microwave oven or disconnect power.
- 2. Open the door and remove the vent grille mounting screw.
- 3. Slide the grille left and tip the cover forward, then lift



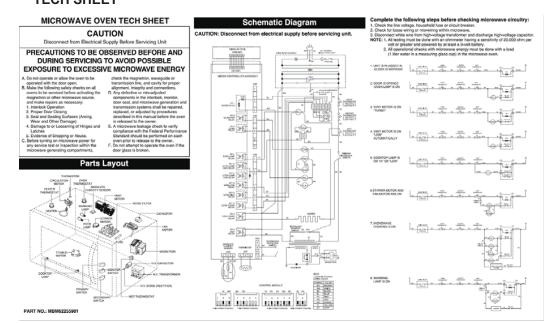
4. Remove the bulb holder mounting screw, and lift up the bulb holder which you want to replace.



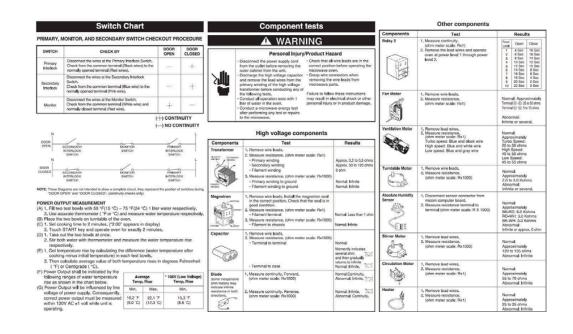
TECH SHEET



TECH SHEET



TECH SHEET





SLIDE OUT HOOD (BOTTOM VIEW)

REMOVE 8 SCREWS

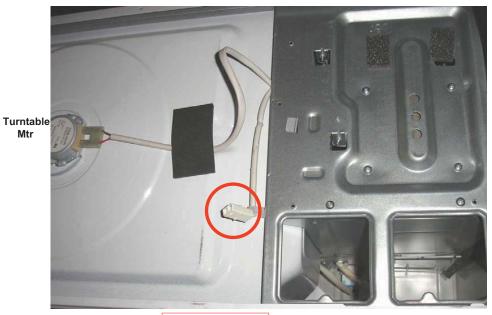




DISCONNECT 120 VAC SUPPLY

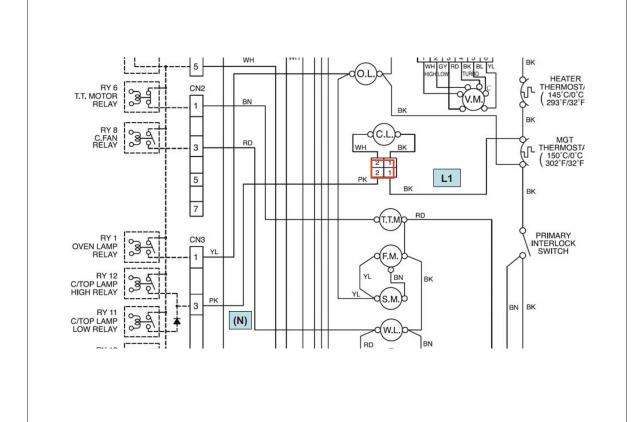


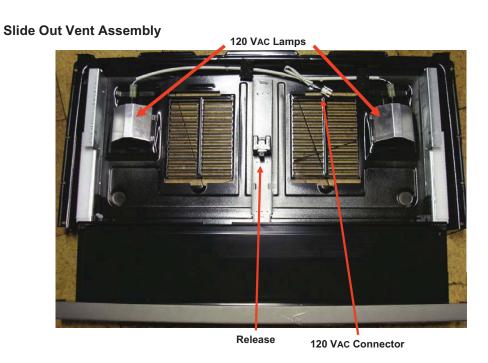
Cabinet Bottom



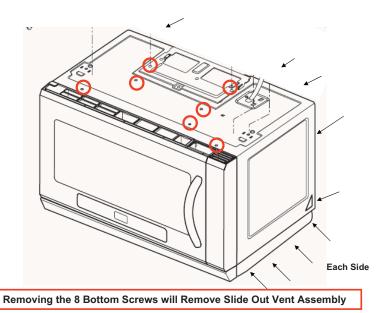
120 VAC Connector

Exhaust Vents to Blower Assembly

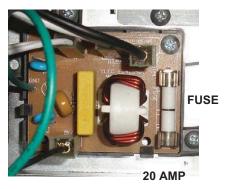




Removing the Cabinet

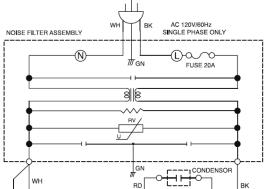


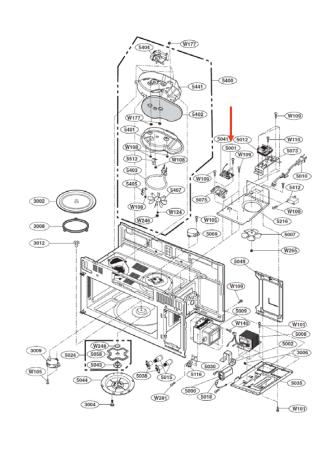
NOISE FILTER ASSEMBLY

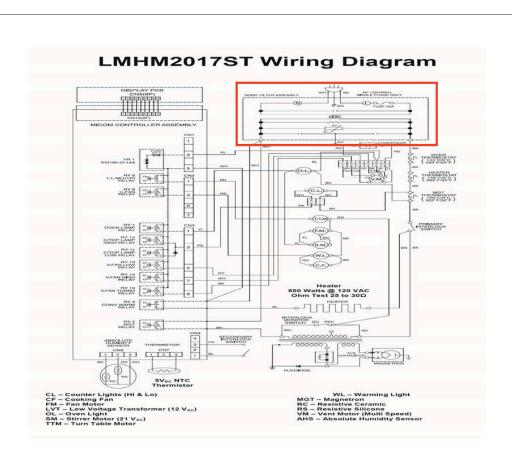


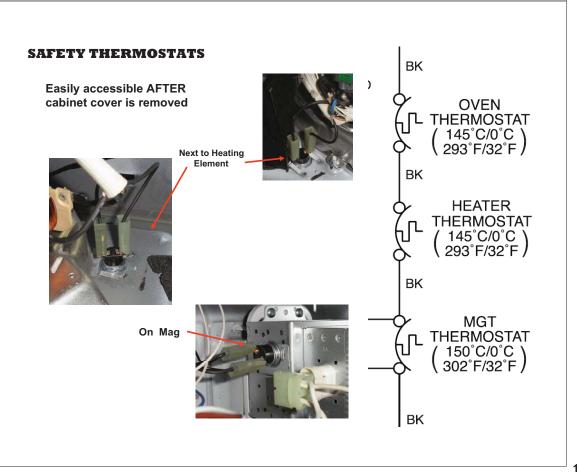
Can be replaced after removing:

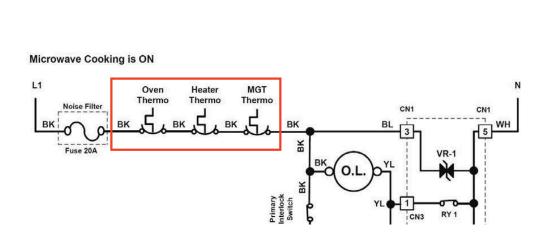
- 1) Disconnect 120 VAC
- 2) Front Exhaust Vent
- 3) Main Control Panel

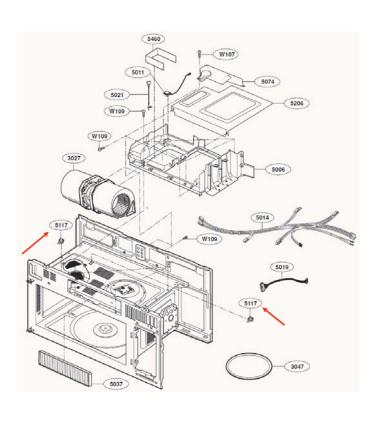


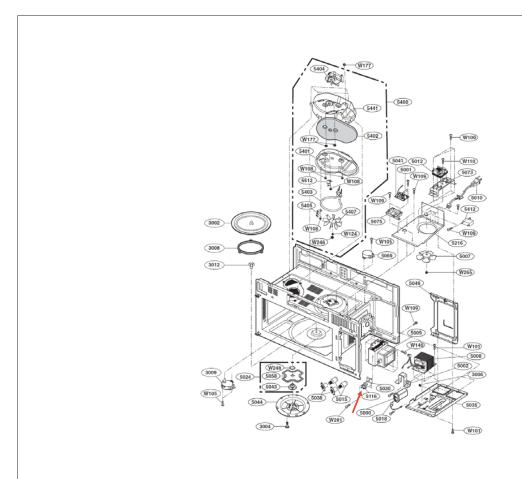


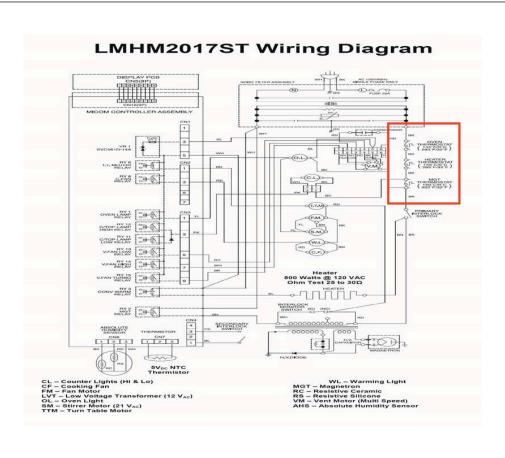












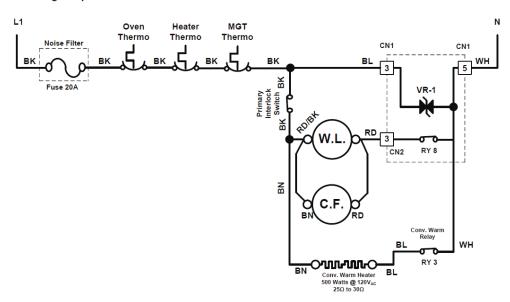
HEATING ELEMENT & FAN ASSEMBLY



500 Watts / 120 VAC

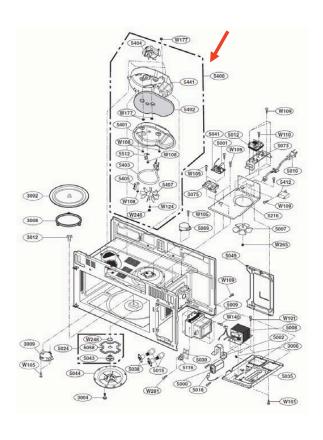


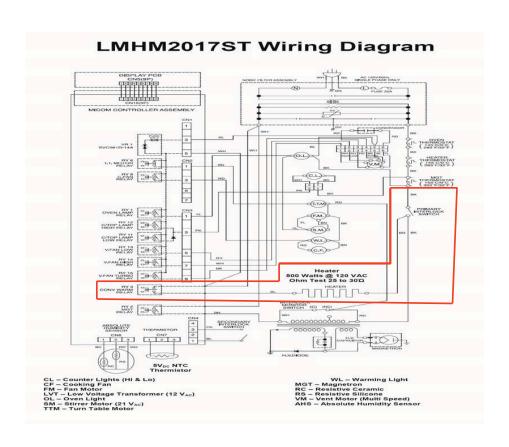
Warming Lamp is ON



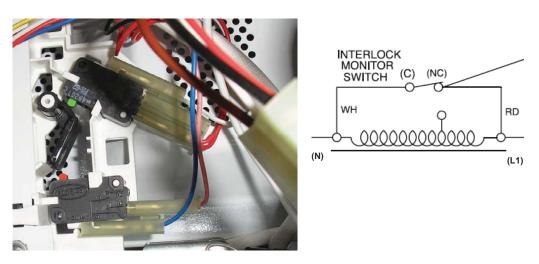




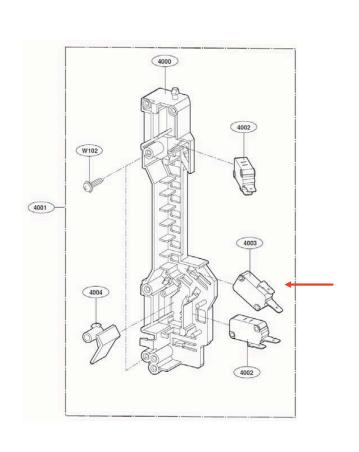


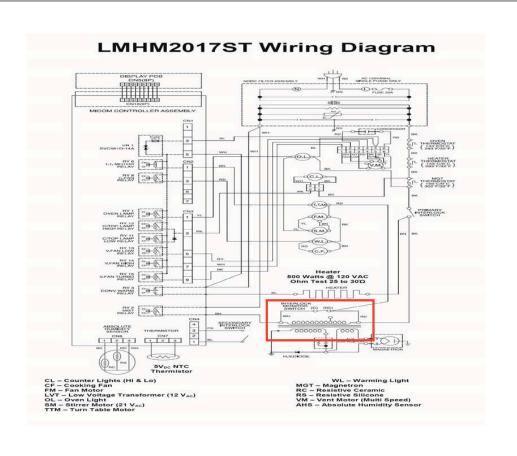


Interlock Monitor Switch - N.C.

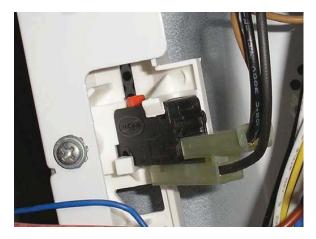


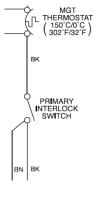
NC Switch – Must OPEN
Creates a DEAD SHORT if Door is NOT Closed Properly
OR contacts Fail to Open



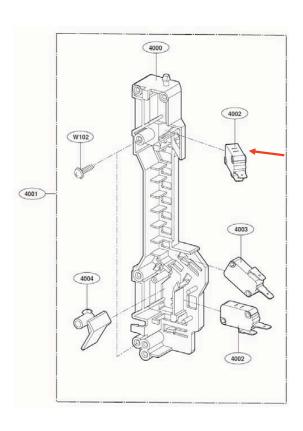


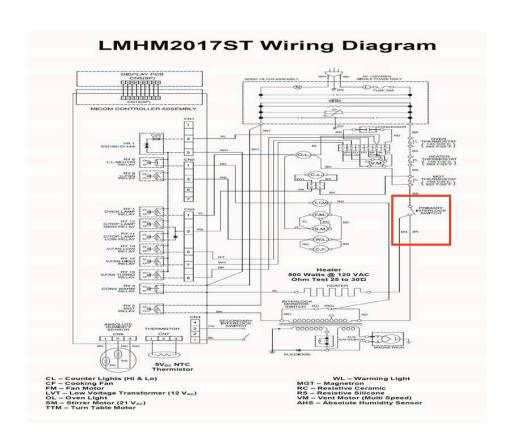
Primary Interlock Switch - N.O.



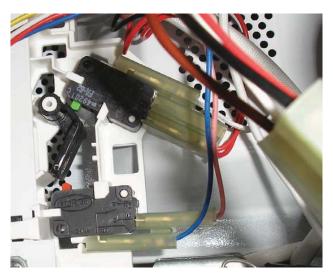


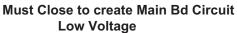
Switch must CLOSE to create Circuit Door must be Properly Closed

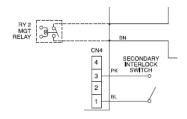


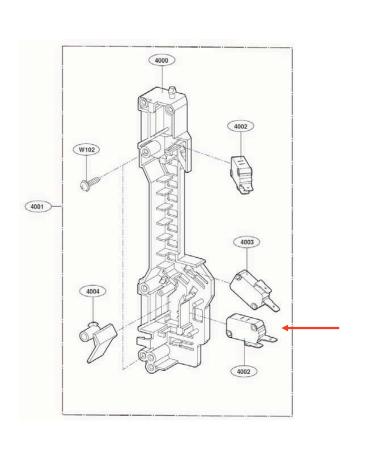


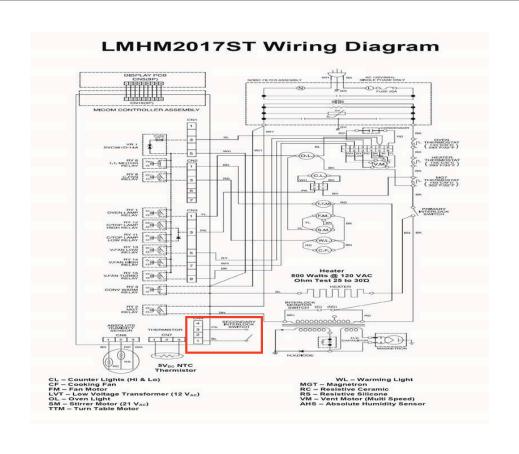
Secondary Interlock Switch - N.O.



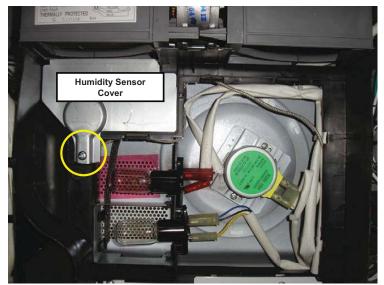


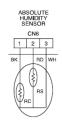






Humidity Sensor







Humidity Sensor

Used Primarily for Pop Corn. To Remove: Remove cover screw, cover and remove 2 screws on sensor.

Humidity Sensor

The humidity sensor can be tested.

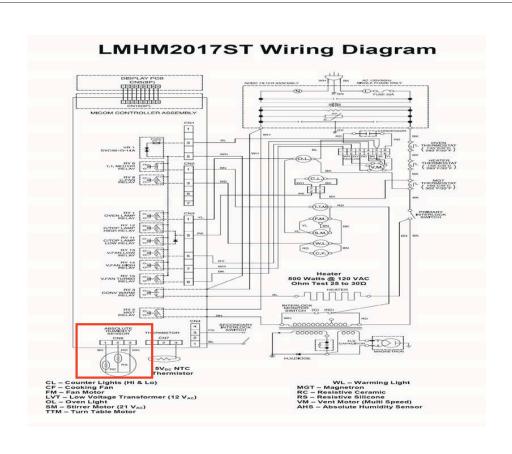
Unplug the three-wire CN6 connector to the sensor at the circuit board end. Set your ohm meter to Rx1000. The resistance should be as indicated on the table, within 10%.

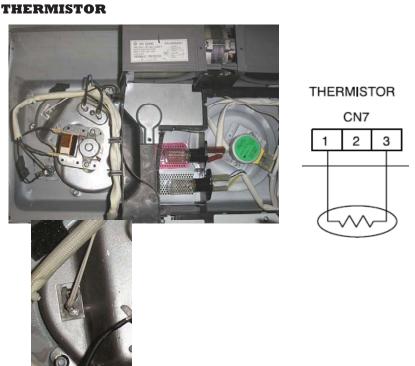
Infinite resistance or a dead short indicates a sensor failure.

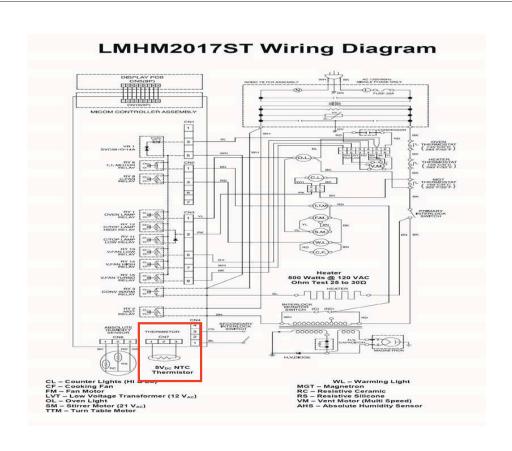
1 and 3 (WH & BK) $4 k\Omega$

1 and 2 (WH & RD) $4 k\Omega$

2 and 3 (RD & BK) $8 k\Omega$



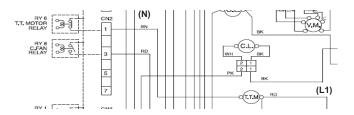


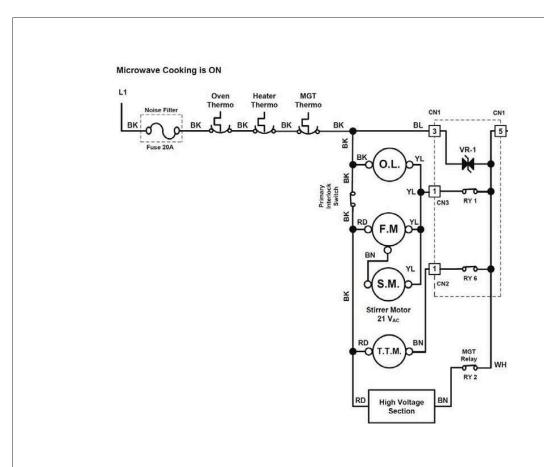


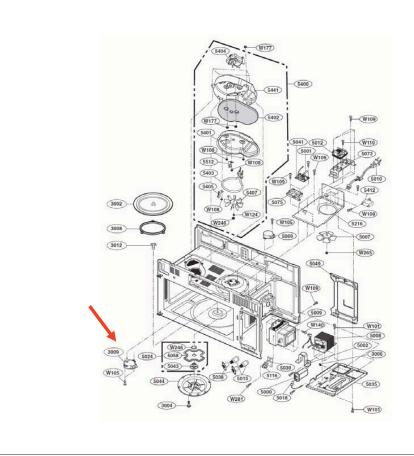
TURNTABLE MOTOR

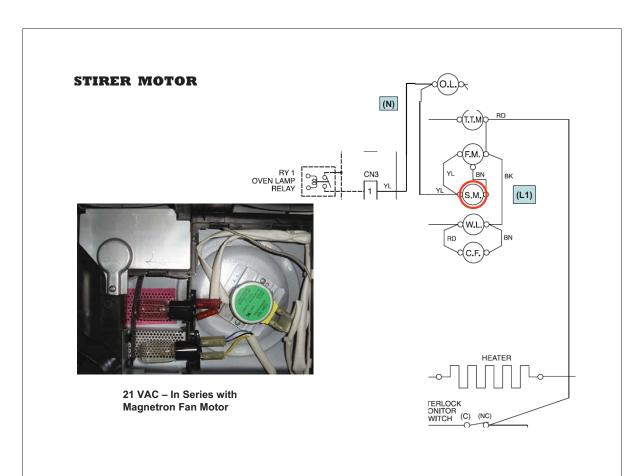


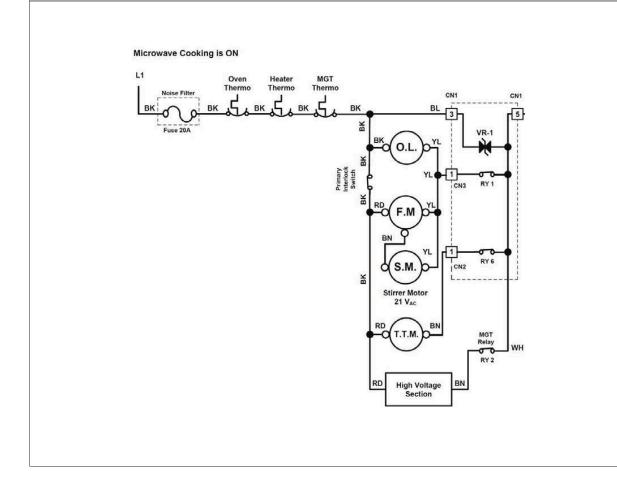
120 VAC



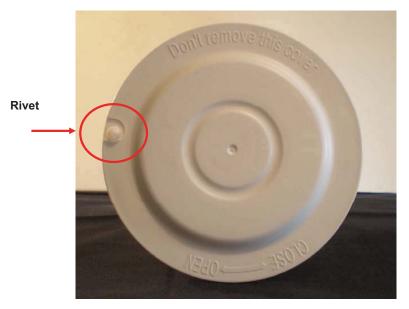




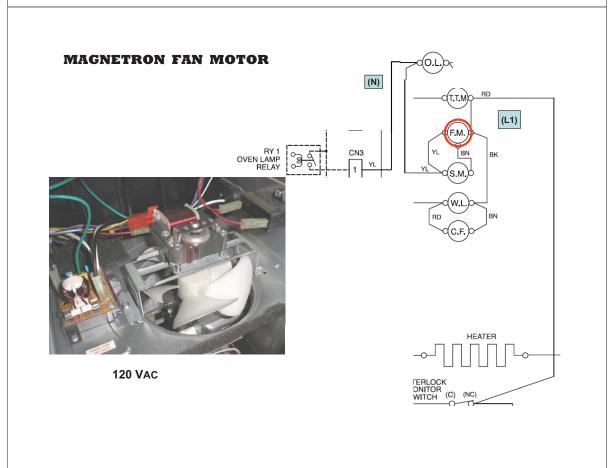


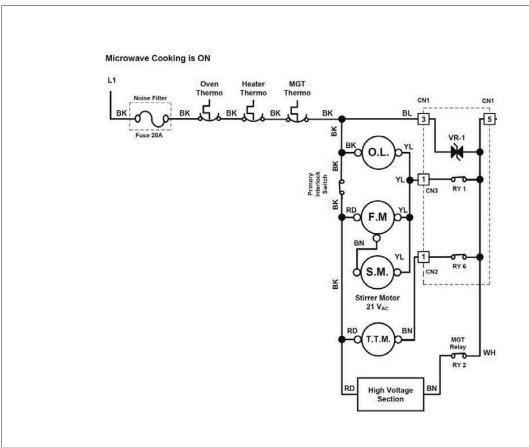


STIRER MOTOR COVER

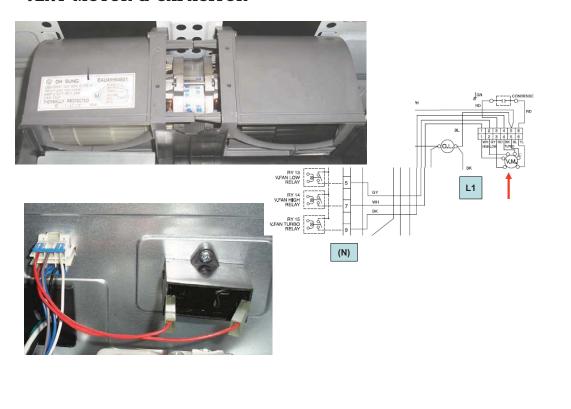


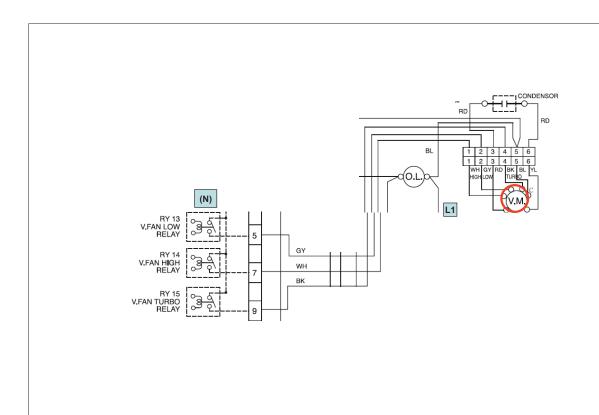
If cover requires removal, carefully remove the plastic rivet; then rotate the cover in the direction of the arrow.

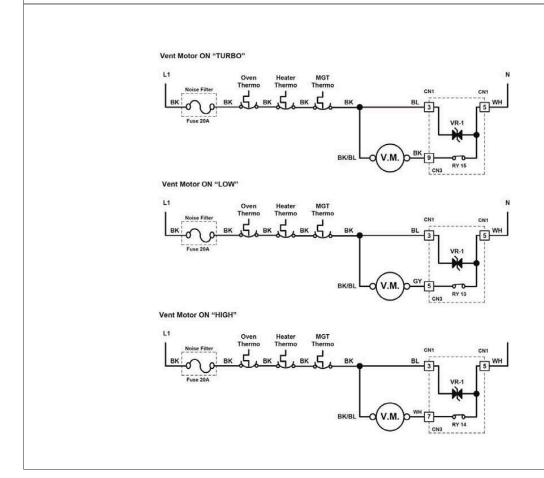




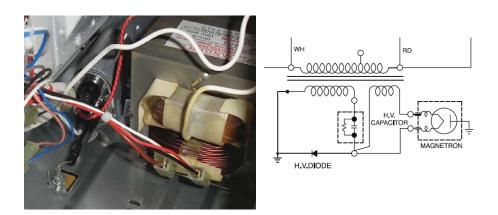
VENT MOTOR & CAPACITOR







HV TRANSFORMER, DIODE, CAPACITOR



TRANSFORMER TEST

To test the transformer, remove all leads to take it out of the circuit.

Measure the resistance between the following points:

FILAMENT SECONDARY Meter scale Rx1 WINDING' WINDING Primary (A & C) – High 0.2 ~ 1.0 Ω HV Secondary (G & GND) $50 \sim 120 \Omega$ E&F Filament (E & F) $0.5 \sim 2.0 \Omega$ Meter scale Rx1000 Primary to ground Normal = infinity Filament to ground Normal = infinity PRIMARY WINDING

DIODE

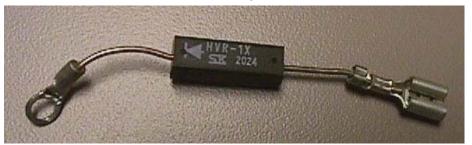
Measure the continuity in both directions using meter scale Rx1000.

Forward: Normal = continuity

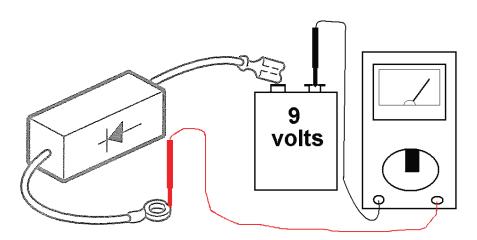
Defective = infinity

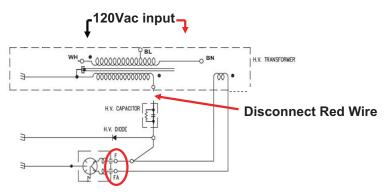
Reverse: Normal = infinite

Defective = continuity



High Voltage Diode





3 - 5 Vac / 12 Amps F to FA

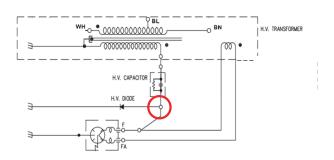
Checking The Filament Winding:

Disconnect Red wire from HV Trans Secondary

120Vac to Primary

3-5 Vac at Magnetron

(



With a 120Vac power supply to the Primary -

There is -2KVDC (-2000VDC) at this point!!

DO NOT Attempt to measure this Voltage without a HIGH VOLTAGE PROBE

(

CAPACITOR TEST

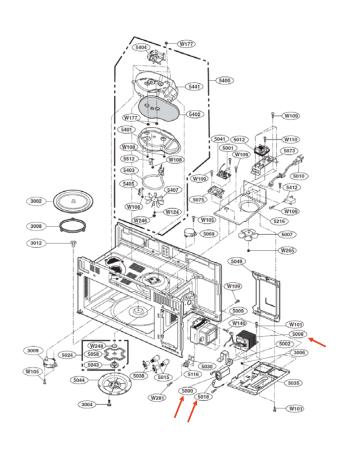


Remove the wire leads. They may be equipped with press-tab releases.

Measure the resistance between the following points:

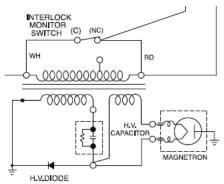
Meter scale Rx1000
Terminal to terminal
Normally indicates several
ohms, then gradually drifts
toward infinity.

Terminal to case Normal = infinity



MAGNETRON





NOTE: Full Power ONLY NO Center Tap

Magnetron Test



To test the magnetron, remove the connector to take it out of the circuit.

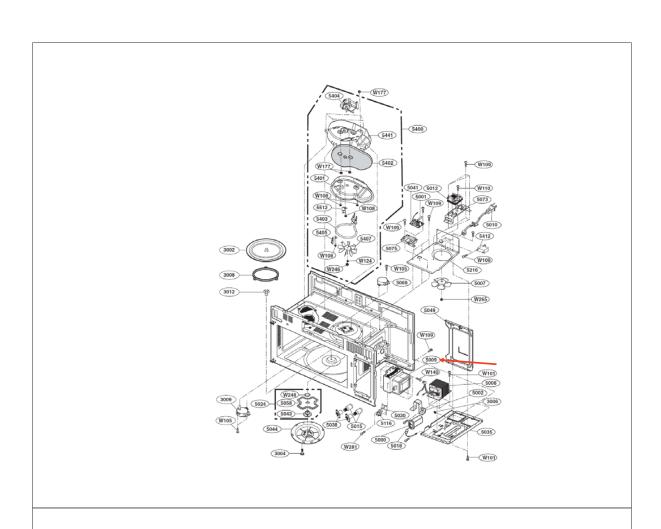
Measure the resistance between the following points:

Meter scale Rx1

Filament terminals $> 1 \Omega$

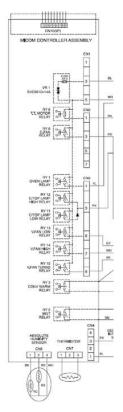
Meter scale Rx1000

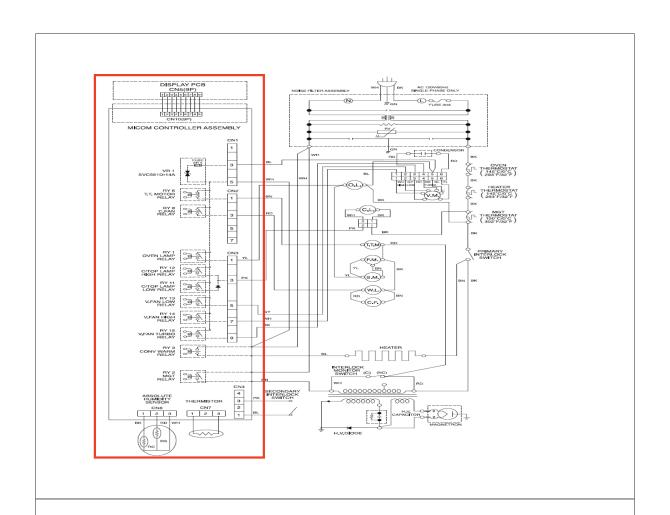
Filament to chassis Normal = infinity

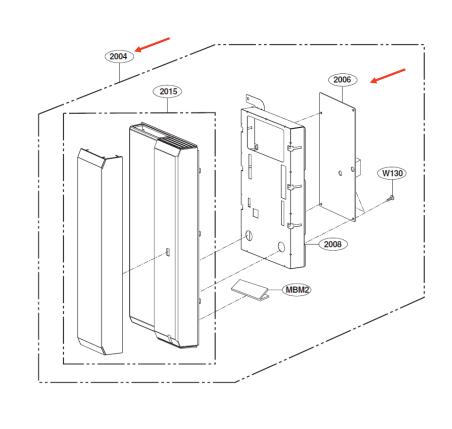


Main PCB

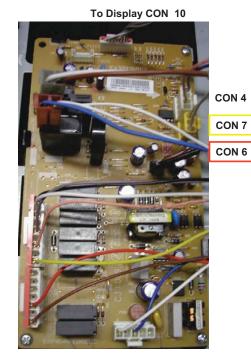










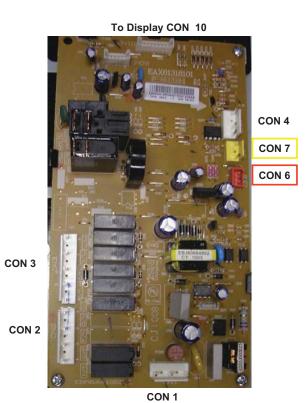


CON 2

CON 3

CON 1

Main PCB



125

Main PCB



CON 4

CON 7

CON 6

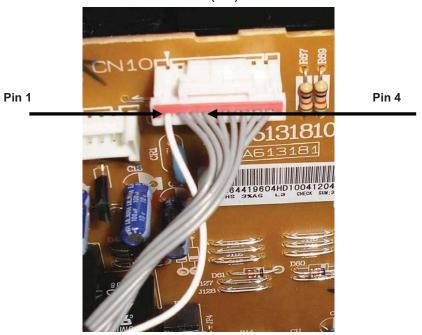
Secondary Interlock SW

Thermistor

Humidity Sensor

Main PCB CN10 Main PWB Display to Door Connector

20VDC Pin 1(WH) to Pin 4



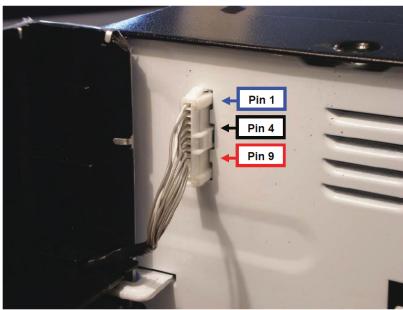
CN10 Main PWB Display to Door Connector Main PCB

5 VDC Pin 4 to Pin 9



Pin 9

Power Supply Test



Door Hinge Connector

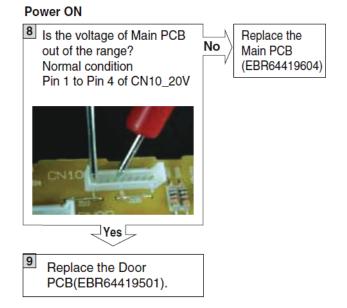
From the upper hinge connector we can test for 2 voltages that power the Display PCB. These 2 voltages originate on the Main Power Board (Micom Controller Assembly) on the right front side of the oven.

TESTING:

- 1) From Pins 4 to 1 we should measure >20V_{DC}.
- 2) From Pins 4 to 9 we should measure 5V_{DC}.

Pin 1 is the white wire; the others are gray. Count down from the top to identify pins 4 & 9. Note: Reference wiring diagram connector. There are only 9 wires in this connector.

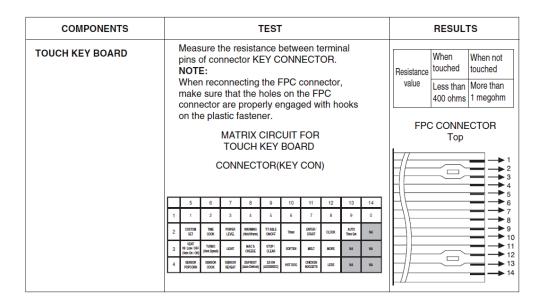
If the tech has these 2 voltages and the Display Board does not illuminate, look for loose connection, if none found, replace the door assembly. Furthermore, if any function button on the display fails to work, look for loose connection and then either replace the door assembly or remove the door, disassemble and diagnose per the service manual. Diagnosis would be to test the touch pad using the touch pad matrix.



From the Service Manual - Page 16

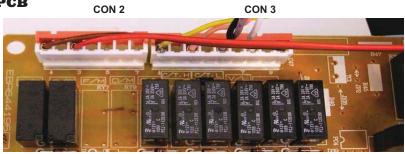
Key Matrix

	5	6	7	8	9	10	11	12	13	14
1	1	2	3	4	5	6	7	8	9	0
2	CUSTOM SET	TIME	POWER LEVEL	WARMING (Hold Warm)	T/T ABLE ON/OFF	Timer	ENTER / START	CLOCK	AUTO Time Set	NA
3	VENT Hi / Low / OFF (Vent On / Off)	TURBO (Vent Speed)	LIGHT	MAC & CHEESE	STOP / CLEAR	SOFTEN	MELT	MORE	NA	NA
4	SENSOR POPCORN	SENSOR COOK	SENSOR REHEAT	DEFROST (Auto Defrost)	EZ-ON (ADD30SEC)	HOT DOG	CHICKEN NUGGETS	LESS	NA	NA



Main PCB

CON 2



BR – Turntable Motor

RD – Cooling Fan

YL - (N) PK - CookTop GY - Vent WH - Vent BK - Vent Lamp

Motor Low

Motor

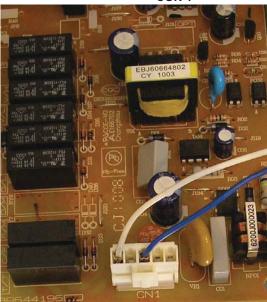
Motor High Turbo

ALL THESE ARE NEUTRAL

To Check: Place Rd meter lead on L1 -Place BK meter lead on Relay output terminal

Main PCB

CON 1

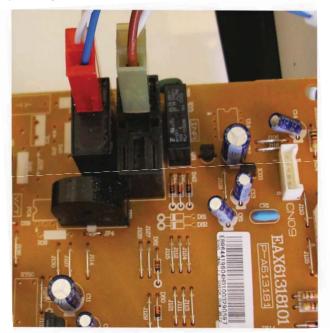


WH -(N)

BL - (L1)

120Vac Input to the Power Supply

Main PCB



MAGNETRON RELAY
(N)
WH - BR= 0 VAC Closed

HEATER RELAY
(N)
BL – WH = 0 VAC Closed

