

# **Technician Manual**

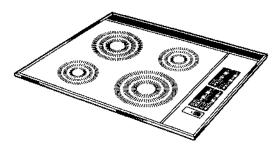
# **GE & Kenmore Induction Cooktops**

GE Models	Kenmore Models
JP392R	911.4292990
JP393R	911.4292590
JP692R	911.4392990
JP693R	911.4392590

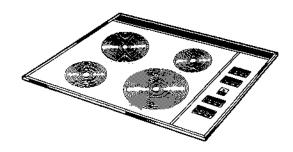
### GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MODELS 911.429 & 439

The above series of Induction Cooktops come in two sizes (30" & 36"), two colors (black on black & white on white) and carries two different brand names (GE Profile Line & Kenmore Line).

### **GE Profile Line**



### **Kenmore Line**



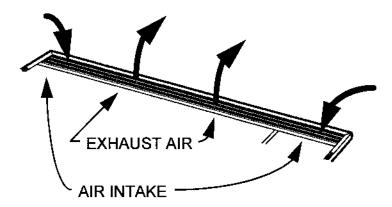
Model No.	<u>Width</u>	<u>Color</u>	<u>Model No.</u>	<u>Width</u>	<u>Color</u>
JP392R	30"	Black	911.4292990	30"	Black
JP393R	30"	White	911.4292590	30"	White
JP692R	36"	Black	911.4392990	36"	Black
JP693R	36"	White	911.4392590	36"	White

#### RATING PLATE

The Rating Plate can be found in two locations on the Induction Cooktop.

- Located below the grill across the back of the cooktop in the right hand corner. Remove grill to see Model and Serial No.
- 2. Located on the bottom side of cooktop box.

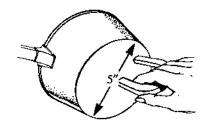
### **AIR FLOW**



The grill across the rear of the cooktop allows proper air flow for cooling the electrical components. Air is drawn in at each end of the grill by two fans located on the bottom of the cooktop. The air is circulated across the electronic components in each module and then exhausted out the center of the grill.

#### COOKWARE

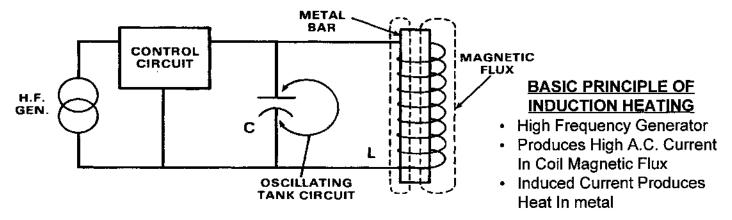
Induction cooking requires the use of cookware made of ferrous metals (materials to which magnets will stick) such as steel or iron. Pans must be at least 5" across the bottom for the cooktop to work.



GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MODELS 911.429 & 439

#### **BASIC PRICIPLES OF INDUCTION HEATING**

A simplified circuit illustrates the basic principle of induction heating. A high frequency generator is used to supply a high alternating current to a vertical induction heating coil. If a piece of metal is introduced into the heating coil, the large currents induced in the metal by the alternative magnetic field produces high surface temperatures in the metal. The amount of heat of heat depends on the permability, electrical conductivity, and the geometry of the metal in the magnetic field.



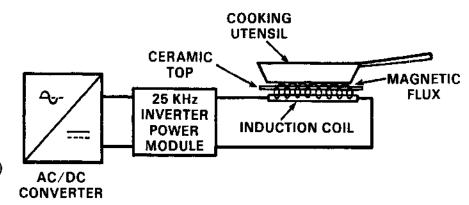
If the vertical induction coil is replaced by a "flat coil" and mounted under a ceramic surface, an induction cooking appliance is obtained.

The principle also is much like a transformer, with the induction coil the primary winding, and the utensil being the secondary winding.

The cooking utensil is placed on the ceramic plate, just above the induction coil. High frequency currents are then induced, through the ceramic plate, into the cooking utensil to provide the heat necessary to cook the food.

# INDUCTION COOKING APPLIANCE

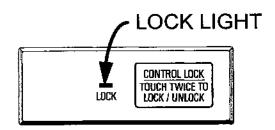
- Flat Coil Under Glass Top
- · Utensil Replaces Bar
- Induced Current Produces Heat In Utensil
- Must Use Ferrous (Magnetic) Utensil



### **CONTROL LOCK FEATURE**

A provision for preventing the operation of the cooktop has been designed into the control. When the cooktop is initailly powered up or after power failure the control is in the LOCKED mode. A small green light above the word "lock" lights up. No Functions will 0perate while the unit is in the locked mode. To unlock the control panel touch the Control Lock Pad twice within 3 seconds.

The control can also be locked by pressing the lock pad twice within 3 seconds. The control must be unlocked before it can be used.



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#### **CONTROL OPERATION**

The touch control for each unit has 10 discrete power settings - 3 major power pads, and up/down slew pads for 7 additional power levels between the major settings. Each touch of a slew pad changes the setting one increment. If the slew pad is touched continuously, the bar segments continue to change.





Kenmore

### POWER SETTINGS

The display contains 10 separate LED'S for the power setting selected. The chart below gives the % of 100% power for each setting. The numbers under setting represent the number of LED'S lit for the power level chosen. Settings between the major pads (Low, Med & High) is obtained by use of the slew pads.

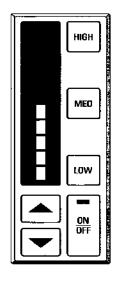
SETTING	Percentage of
	100% Power
1 - L0W	3
2	8
3	14
4	21
5 - MED	29
6	39
7	51
8	65
9	81
10 - HIGH	100

### INDUCTION HEATING COIL OPERATION

The control requires a two step set-up to turn a induction coil "ON" with a utensil in place.

- 1 Touch "ON/OFF" Pad The control will "BEEP" and LED above "ON/OFF" PAd will light and module fans will come on.
- 2 Press "POWER" Pad (Major or Slew) Display Bar will light for the power level selected. If a magnetic cooking utensil is not in place the control will beep & flash and induction unit will not turn on.

NOTE: If a power level is not selected within 15 seconds after touching the "ON" pad control will automatically turn "OFF".



### **DISPLAY FOR INDUCTION COIL "BEEPS & FLASHES"**

Under the following conditions the display for a particular induction coil will beep & flash:

- Cooking Utensil Removed During Cooking
   When the utensil is removed during the cooking mode the control will remove power to the induction coil and "Beep & Flash". If the utensil is placed back on the coil within one minute, the unit will resume normal cooking.
- Over Temperature If coil over heats the unit will turn off. After cool down, unit will resume normal operation.
- No Utensil On Coil The control will "Beep & Flash" for one mintue and turn "OFF". If the utensil is placed on the coil within one minute, the unit will start normal cooking.
- <u>Utensil Too Small</u> Cookware must be at least 5" in diameter or the coil will not sense the presents of the pan.
  - <u>Cookware Off Center</u> Coil will not sense the cookware as being the proper size.

GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MQDELS 911.429 & 439

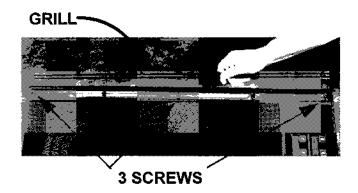
### **COOKTOP SERVICE POSITION**

The cooktop can be raised for service.

<u>WARNING</u> **DISCONNECT all POWER** before opening Cooktop for service. The components on the power modules are electrically hot when power is connected.

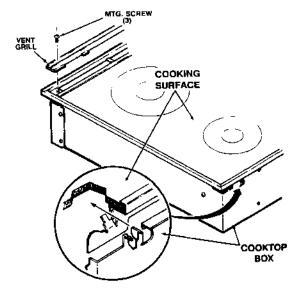
### TO RAISE COOKTOP:

- 1. DISCONNECT POWER
- 2. Remove rear vent grill (Snapped in place)





- 3. Remove 3 screws from rear of Cooktop trim
- 4. Lift Cooktop at rear and move towards rear to unhook tabs at front.



5. Rest rear edge of Cooktop against rear of cooktop box and raise support arms.

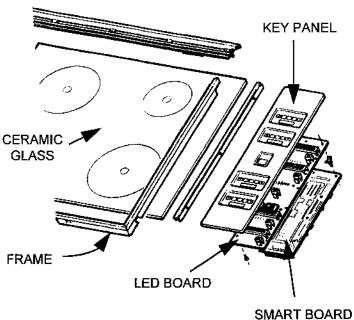
### **COOKTOP ASSEMBLY**

The ceramic glass top and control panel assembly make up the cooktop assembly. A frame around the outer edge hold the assembly together.

#### **CONTROL PANEL ASSEMBLY**

The control panel assembly consists of:

- Key Panel Assembly (replaced as complete as sembly).
- · Control Board (Smart Board).
- LED Board



GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MODELS 911.429 & 439

### TO REMOVE CONTROL PANEL ASSEMBLY:

- 1 DISCONNECT POWER to unit and raise cooktop. (See page 4)
- 2 Remove connectors from cooktop, lift cooktop off and lay face down on flat surface.
  NOTE: Cover surface to prevent possible damage to cooktop or surface.
- 3 Remove 5 mounting screws securing intake / vent trim (2 screws on each side and one on top).
- 4 Remove 3 screws mounting center brace.
- 5 Flex side trim out slightly from control panel assembly and pull straight up. Care must be taken not to deform ordamage trim.

<u>NOTE:</u> Foam tape around perimeter of control may stick to trim making it difficult to remove.

#### **CONTROL PANEL ASSEMBLY**

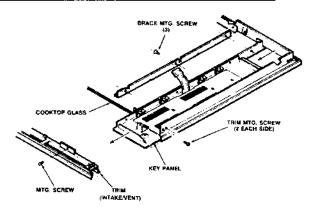
### TO DISASSEMBLY CONTROL PANEL:

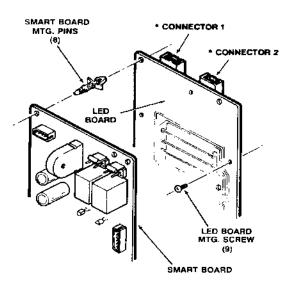
- DISCONNECT POWER and remove cooktop assembly.
- 2. Remove Smart Board by:
- Disconnect Smart Board to LED Board connectors and Ribbon Connector.
  - <u>NOTE:</u> To release ribbon connector squeeze tabs on each end of connector and lift up.
- Smart Board (held to LED board by plastic (standoff's) is removed by depressing spring finger on each of the standoffs.
  - N0TE: Care must be taken not to damage board when removing.
- LED Board is mounted to Key Panel by 9 screws.

### **CONTROL BOARD (SMART BOARD)**

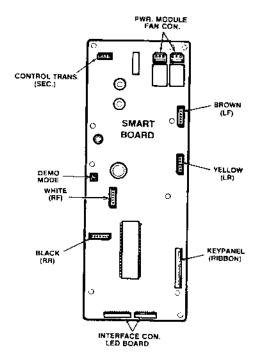
The control board contains the following connetors:

- · Control Transformer Secondary.
- · Left and Right Module Fan Motor Connectors.
- Color Coded Module Heating Unit Connectors: properly aligned and completelyy pushed on.
- Left Front Brown
- Right Front White
- Left Rear Yellow
- Right Rear Black
- Demo Connector
- · Key Panel Ribbon Connector
- LED Board Connectors





\* LED BOARD CONNECTORS (SEE SCHEMATIC WIRING DIAGRAM)



<u>NOTE:</u> For proper unit operation and to avoid damage to unit, Connectors must be properly aligned and completely pushed on.

GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MODELS 911,429 & 439

#### INPUT POWER COMPONENTS

All input power components are mounted on the cooktop box bottom right side. The components consist of Terminal Block, Line Capacitors, Choke Coils, Line Filter Capacitor, Distribution Block, Control Transformer Assembly and 15 and 20 Amp module fuses.

### **MODULE FUSES**

The module power leads each contain either a 15 Amp (for 6" units or a 20 Amp (for 8" or 9" units) fuse. The four fuses or labeled and located on the case bottom near the distribution block.

The nominal wattage and current for each of the units are as follows:

Left Front - 1300W. @ 120V. and 11A.

Left Rear - 1800W. @ 120V. and 15A.

Right Front - 2200W. @ 120V. and 18A.

Right Rear - 1300W. @ 120V. and 11A.

NOTE: Current can vary by +10% or -35% depending type of load used when checking current.

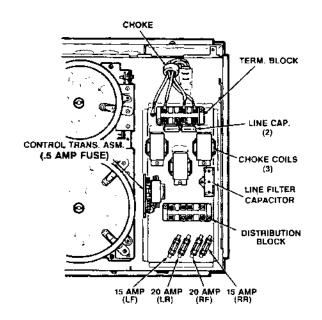
#### CONTROL TRANSFORMER ASSEMBLY

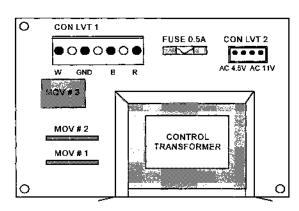
The Control Transformer and PC Board Assembly is mounted to the case bottom. Approximate voltages are:

Connector Pin No.	Nominal Voltage
1 - 2	11.0V AC
3 - 4	4.5V AC

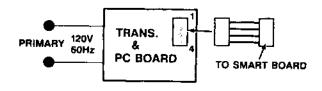
#### TO TEST

Disconnect the connector from control transformer board. Connect appliance power and check output voltage.





**CONTROL TRANSFORMER CIRCUIT BOARD** 



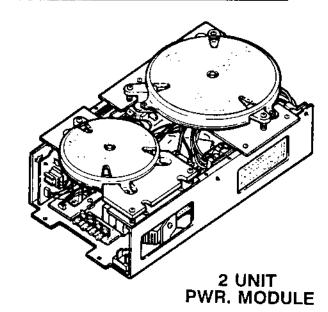
GE MODELS JP392R, JP393R, JP692R, JP693R & KENMORE MODELS 911,429 & 439

### **POWER MODULES**

The power modules are located inside the Cooktop case. The left module contains one 6" and one 8" heating coil, and the right contains one 6" and one 9" heating coil along with all of the electronic components associated with the module.

Each heating unit has its own smart board, filter coil, capacitors, and power transistor. The modules also contain a low voltage transformer, fan, and other miscellaneous parts.

NOTE: Left and Right power modules appear to be identical. (Left module contains one 8" and one 6" coil, right module contains one 9" and one 6" coil).



### TO REMOVE POWER MODULE:

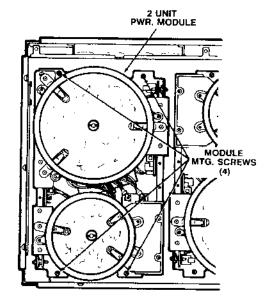
Each module is mounted inside the cooktop case by four screws.

### **WARNING**

**DISCONNECT POWER** before opening Cooktop for service. Components are electrically hot when power is connected.

### TO REMOVE

- 1. DISCONNECT POWER to cooktop.
- Raise top assembly and disconnect plugs to control assembly.
- 3. Lift top assembly off.
- 4. Disconnect leads to power module.
  - a. Red or Black lead from fuse.
  - b. Neutral (White) from distribution block.
- Remove 4 screws that secure module to case bottom.



GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

The following is intended to help guide you through trouble shooting the Induction Cooktop. Each step will identify how the cooktop should work and what corrective action is needed. It is important to follow the guide all the way through because in some instances one failure identified can be the results of another failure.

One of the most important steps will be to identify what is working and what is not...

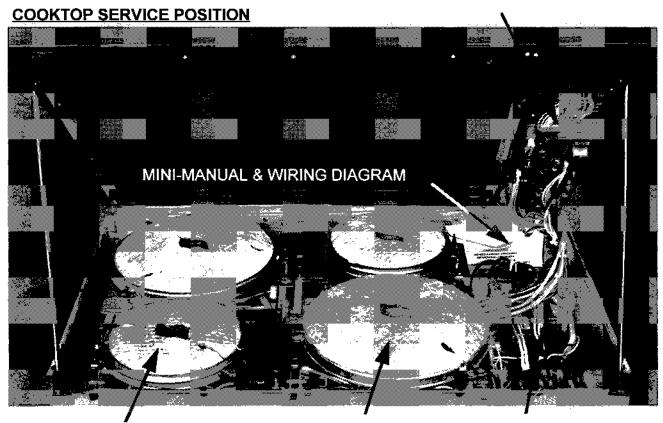
Example: Right Front Unit Does not Heat, or Display Beeps and Blinks, or Can not Unlock Cooktop.

Once the problem area has been identified you are ready to begin the repair procedure.

With the cooktop raised into the service position (See Page 4) you will be able to move to the problem areas and begin the repair.

SMART BOARD, LED BOARD

**& KEY PANEL** 



LEFT POWER MODULE RIGHT POWER MODULE

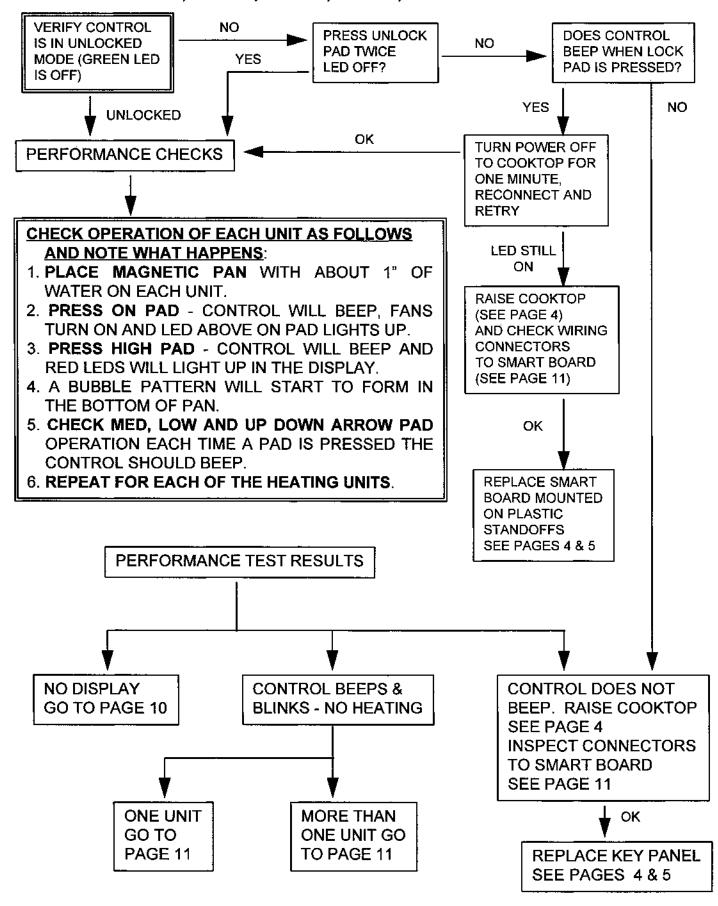
INPUT POWER COMPONENTS

**NOTE:** If room permits cooktop can be rotated to the left for servicing.

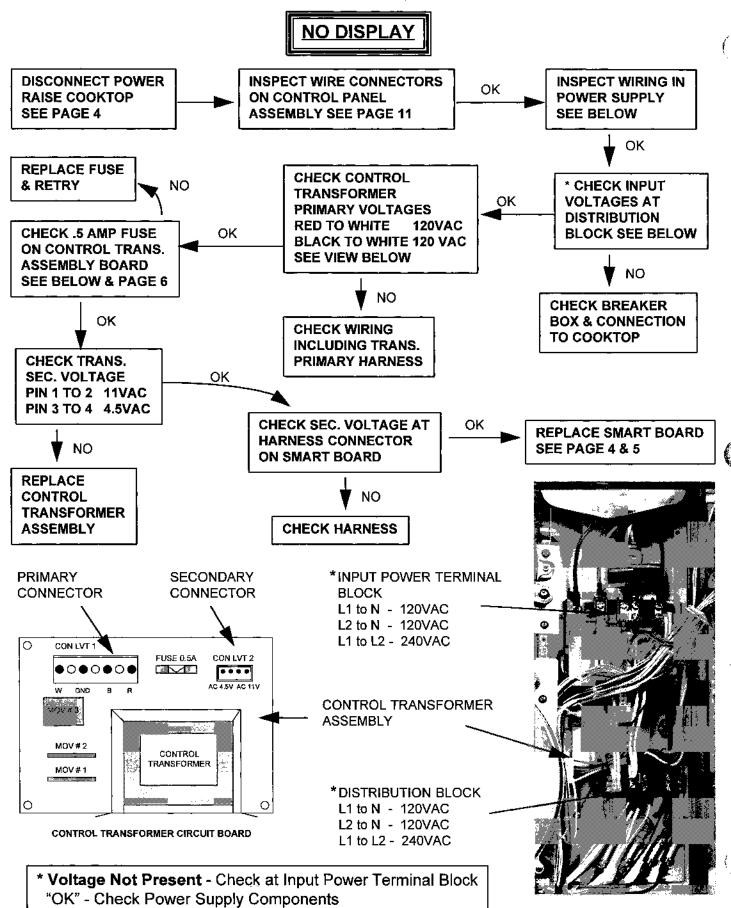
BACK OF CONTROL PANEL GLASS COOKTOP

INPUT POWER COMPONENTS

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439



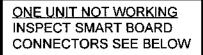
GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439



GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

<u>WARNING</u> - DISCONNECT POWER before servicing - <u>"DO NOT TOUCH"</u> any electrical or ungrounded metal parts while servicing with power connected.

OK



MAKE VISUAL INSPECTION OF POWER MODULE THAT IS NOT WORKING. SEE PAGES 20 & 21 LOOK FOR CONNECTORS OFF.



MORE THAN ONE UNIT NOT WORKING

LED BOARD CON 304 RIGHT MODULE (GE) - BLACK & WHITE LEADS (KENMORE) - BROWN & YELLOW LEADS

(KENMORE) - BLACK & WHITE LEADS

LED BOARD, CON 303 LEFT MODULE

(GE) - BROWN & YELLOW LEADS)

CONTROL TRANS. CON 209 (RED & BLUE LEADS)

MODULE FANS CON 207 & 208 (WHITE LEADS)

CONTROL GRND. LEAD

(GREEN LEAD)

INSPECT SMART BOARD WIRING & CONNECTORS SEE ILLUSTRATION

OK

MAKE VISUAL INSPECTION OF POWER MODULE THAT IS NOT WORKING. SEE PAGES 20 & 21 LOOK FOR CONNECTORS OFF.

OK

REPLACE CONTROL SMART BOARD SEE PAGES 4 & 5

RIGHT FRONT UNIT CON 203 (WHITE LEADS)

RIGHT REAR UNIT CON 204 (BLACK LEADS)

INPUT POWER COMPONENT COMPARTMENT

LEFT FRONT UNIT CON 206 (BROWN LEADS)

LEFT REAR UNIT
CON 205
(YELLOW LEADS)

DEMO MODE CON 211 (BLACK LEAD)

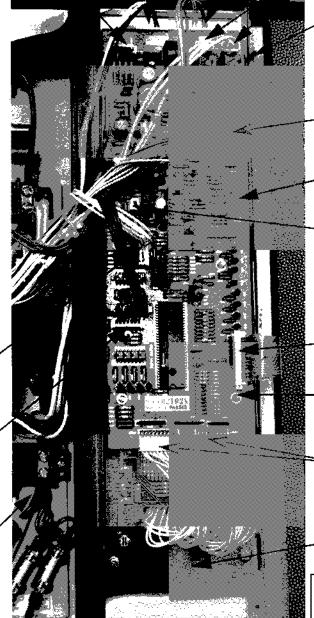
KEY PANEL RIBBON
CONNECTOR

CONTROL SMART BOARD

LED BOARD INTERFACE
CON 201 & 202
(WHITE LEADS)

LED BOARD

CONTROL PANEL AS VIEWED FROM BACK



GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

<u>WARNING</u> - DISCONNECT POWER before servicing - <u>"DO NOT TOUCH"</u> any electrical or ungrounded metal parts while servicing with power connected.

### CHECK FUSE TO UNIT NOT WORKING SEE ILLUSTRATION

RIGHT FRONT 20 A. FUSE

#### **MAKE THE FOLLOWING CHECKS:**

- Identify the fuse to the unit not working.
   Each unit fuse is clearly identified including part no. & \*Amperage on case bottom.
- Check fuse with ohm meter. If fuse is blown, replace & retry unit.
- NOTE: <u>USE ONLY THE TYPE FUSE</u> IDENTIFIED FOR THAT UNIT.
- 3. Fuse is not open or blows when replaced proceed to module checks. (PAGE 13)

LEFT REAR 20 A. FUSE

LEFT FRONT 15 A. FUSE



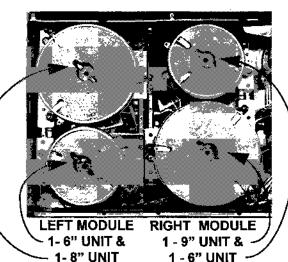
RIGHT REAR 15 A. FUSE

### **MODULE CHECKS:**

### FRONT OF INPUT POWER COMPARTMENT

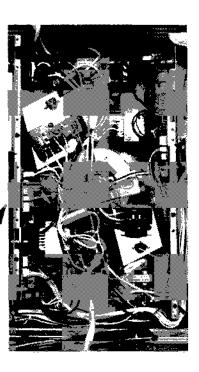
The Modules in the cooktop are referred to as either a Right Module or Left Module. The Diagnostic procedure is the same for both modules. The main difference is coil size and component location. When replacing parts only use the parts specified for that particular unit (or section of module) being serviced. Both the Left & Right Module can be removed as a complete assembly by removing 4 screws securing it to the case bottom and disconnecting the wires to the control, fuses and distribution block.





LEFT POWER MODULE WITH HEATING COILS REMOVED

RIGHT POWER MODULE WITH HEATING COILS REMOVED



GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

PLASTIC

**FINGERS** 

**HEATING COIL** 

INSULATION

BLANKET

### MODULE CHECKS CONTINUED: HEATING COILS

INSPECT HEATING COIL OF UNIT NOT WORKING. A.) DOES UNIT HAVE BURNT SMELL, B.) REMOVE INSULATION BLANKET FROM TOP OF COIL.

- C.) DOES UNIT HAVE DARK SPOTS ON THE COIL.
- D.) INSPECT PLASTIC FINGERS ON TOP OF COIL FOR DISTORTION OR SIGNS OF MELTING.

REPLACE MODULE. **USUALLY INDICATES** SEVERAL FAILURES RETURN REPLACED MODULE FOR

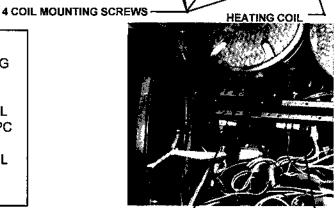
REPAIRS

YES



### REMOVE COIL:

- 1. REMOVE 4 SCREWS MOUNTING COIL TO MODULE FRAME.
- 2. CAREFULLY DISCONNECT THERMISTOR PLUG & THERMAL FUSE PLUG FROM INVERTOR PC **BOARD. SEE ILLUSTRATION**
- 3. LAY UNIT TO SIDE (NOTE COIL WIRES STILL CONNECTED TO CAPS ON MODULE BASE.



THERMISTOR (CON108) RED LEADS (CAN BE **EITHER A 2 OR 5 PIN** CONNECTOR)

THERMAL FUSE (CON 111) **BLUE LEADS** 

# INSPECT HEATING **COIL CAPACITORS**

LOOK FOR SWOLLEN OR CRACKED CAPACITOR CASES.

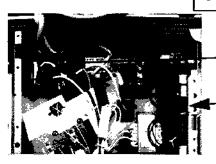
### **CHECK THERMAL FUSE &** THERMISTOR:

THERMAL FUSE (BLUE LEADS) WITH OHM METER CHECK AT CONNECTOR. - OPEN REPLACE.

THERMISTOR (RED LEADS) SET OHM METER ON HIGH SCALE & CHECK AT CONNECTOR, - OPEN OR SHORTED REPLACE.

#### TO REPLACE THERMAL FUSE OR THERMISTOR:

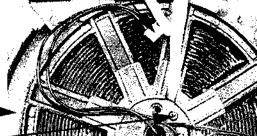
REMOVE TWO SCREWS FROM CENTER BACK SIDE OF COIL, PLASTIC DISC FROM FRONT SIDE WILL SLIDE OUT WITH BOTH THE THERMAL FUSE & THERMISTOR. REINSTALL IN REVERSE ORDER MAKING SURE EACH COMPONENT IS INSTALLED THE SAME WAY IT WAS REMOVED.



**COIL CAPACITORS** (EACH HEATING COIL HAS TWO CAPACITORS)

MODULE

**BACK SIDE OF HEATING COIL** 





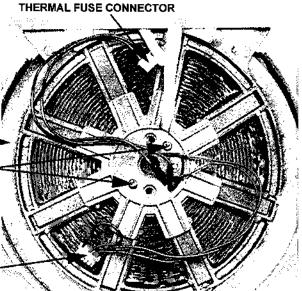
**SWOLLEN CAPACITOR** 

NOTE: WHEN REPLACING CAPACITOR, ONLY REPLACE WITH ONE CALLED OUT ON PARTS CATALOG PAGES. CAPACITORS HAVE DIFFERENT RATINGS.

PROCEED TO NEXT PAGE.

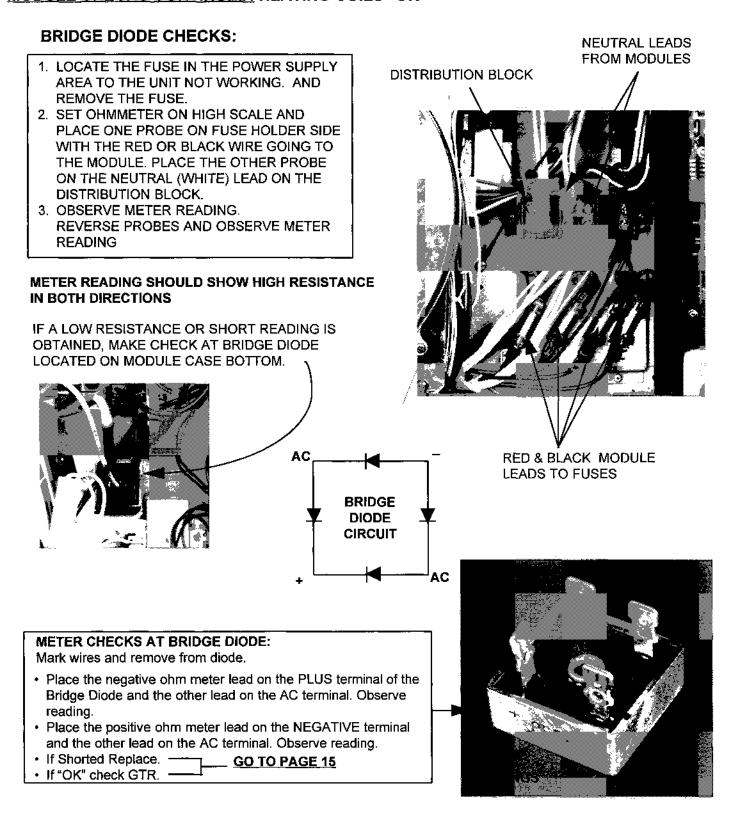
2 MOUNTING **SCREWS** 

THERMISTOR CONNECTOR



INDCKTP1 (8/95)

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439 MODULE CHECKS CONTINUED: HEATING COILS "OK"



**NOTE:** Replace all Bridge Diodes Marked CM2504 & CM3504 on models with Serial Nos. Starting with HH, LH, MH, RH, or SH manufactured in mid 1993.

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

### **MODULE CHECKS CONTINUED:**

#### **BRIDGE DIODE REPLACEMENT:**

- MARK AND REMOVE WIRES TO DIODE. MARK ON MODULE + TERMINAL LOCATION
- 2. REMOVE MOUNTING SCREW IN CENTER OF BRIDGE DIODE AND LIFT OUT.
- 3. ADD A THIN EVEN LAYER OF THERMAL HEAT SINK COMPOUND TO BOTTOM OF DIODE, MAKING SURE TO COVER ENTIRE SURFACE.
- 4. POSITION NEW DIODE (PLUS & MINUS)
  SAME AS OLD DIODE AND REINSTALL
  SCREW. MAKE SURE BOTTOM OF DIODE
  IS MAKING GOOD CONTACT WITH
  MOUNTING SURFACE.
- 5. REWIRE



BRIDGE AND MODULE CASE BOTTOM MUST MAKE GOOD CONTACT

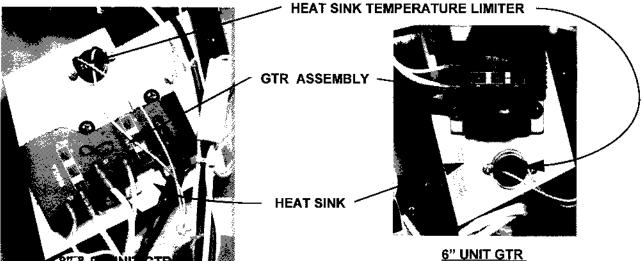
### MOUNTING SCREW

HEAT SINK
COMPOUND
BETWEEN
DIODE BASE
MODULE BASE

BRIDGE DIODE

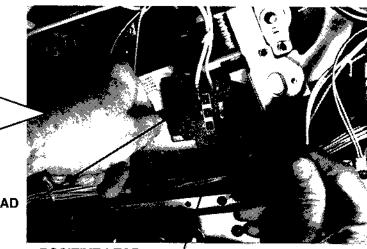
### **GTR** (Giant Transistor):

The GTR'S will be furnished as and assembly. The 6" unit GTR will consist of one GTR soldered to a circuit board. The 8" & 9" units each contain two GTR'S soldered to a circuit board. See Pages 19 & 20 for GTR location for each unit. The GTR'S are not in the same location on the Left and Right Modules. The procedure for checking the GTR'S is the same for all except as noted.



#### GTR CHECKS:

- CONNECT POSITIVE LEAD FROM OHMMETER TO "C" ON GTR CIRCUIT BOARD AND NEGATIVE LEAD TO "E".
   GOOD GTR SHOULD READ HIGH RESISTANCE OR OPEN.
- 2. TO REPLACE GTR ASSEMBLY GO TO PAGE NO. 16



**NEGATIVE LEAD** 

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439 MODULE CHECKS CONTINUED: GTR REPLACEMENT

#### TO REPLACE GTR:

- Mark wires and disconnect from circuit board.
- Remove mounting screws and lift bad GTR Assembly off.
  - (2 screws on 6" unit GTR'S & 4 screws on 8" & 9" unit GTR'S.)
- Place a thin even layer of Heat Sink Compound on bottom of GTR.
- Firmly press the GTR down on the heat sink (Do not press on circuit board).
- Replace screws again make sure the GTR is making good contact with the Heat Sink.

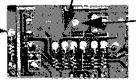
**NOTE:** A GTR not properly mounted to the Heat Sink will fail again.

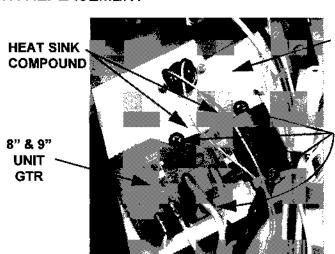
- Reconnect wires to GTR Circuit Board (Take care not to damage board).
- Check wire connectors to Invertor Board, make sure all connections are tight and fully seated.
- Release the three plastic mounting tabs across the top of the Invertor Board and carefully lean forward and inspect the back of the board in the area around thermistor plug.
- If discoloration is present or fracture soldered joints replace board.

**NOTE:** replace only with board specified for that unit.

LOOK FOR DISCOLORATION IN THIS AREA

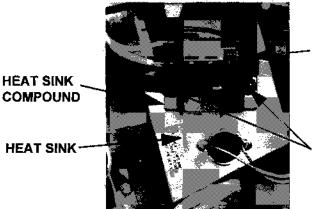
BACK OF INVERTOR BOARD





HEAT SINK

MOUNTING SCREWS (4)



6" UNIT GTR

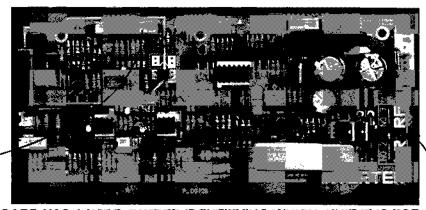
> MOUNTING SCREWS (2)

INVERTOR BOARD ~





**EACH INVERTOR BOARD HAS A TOTAL OF 10 CONNECTORS** 



EACH BOARD HAS A WIRE JUMPER IDENTIFYING WHICH UNIT IT IS FOR

INDCKTP1 (8/95)

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

### MODULE CHECKS CONTINUED:

### **CHECK INVERTOR BOARD "C116" CAPACITOR:**

Set ohmmeter on high scale and check capacitor on invertor board located near center bottom. See Illustration. If open or shorted replace invertor board.



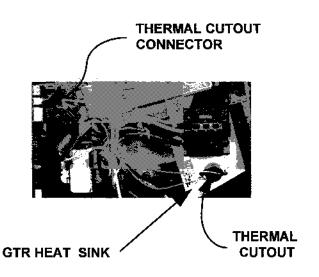


### GTR HEAT SINK THERMAL CUTOUT:

Each GTR Heat Sink has a thermal cutout mounted to it.

Check the cutout with ohmmeter, should show shorted. If open replace.

Check connector at Invertor Board to make sure that it is plugged in.



GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

### **MODULE CHECKS CONTINUED**

POWER MODULE LOW VOLTAGE TRANSFORMER: EACH HEATING COIL HAS A LOW VOLTAGE TRANSFORMER AS PART OF ITS POWER SUPPLY. THEY ARE MOUNT TO THE MODULE BASE. TO CHECK TRANSFORMER PRIMARY: DISCONNECT TWO PIN CONNECTOR AND CHECK WITH OHMMETER. TRANSFORMER FOR 8" & 9" UNITS SHOULD READ APPROX.  $25\Omega$  AND 6" UNIT SHOULD READ APPROX.  $40\Omega$ .



TRANSFORMER PRIMARY 2 PIN CONNECTOR

LOW VOLTAGE TRANSFORMER

#### **POWER MODULE CURRENT TRANSFORMERS:**

EACH HEATING COIL POWER SUPPLY HAS TWO CURRENT TRANSFORMERS. ONE IS LOCATED ON THE INVERTOR BOARD AND THE OTHER ON A SMALL PCB MOUNTED TO THE MODULE CASE BOTTOM.

TO CHECK THE CURRENT TRANSFORMERS:

- 1A. INVERTOR BOARD CURRENT TRANSFORMER
   WITH OHMMETER CHECK COIL ACROSS
  CAPACITOR JUST ABOVE TRANSFORMER,
  SHOULD READ APPROX. 400 TO 450Ω. IF
  READING IS ABOVE 1000Ω REPLACE
  INVERTOR BOARD.
- 1B. CHECK WIRE LOOP SHOULD HAVE TWO TURNS OF BLACK OR RED WIRE FROM BRIDGE DIODE.
- 2A. CURRENT TRANSFORMER LOCATED ON MODULE BASE CHECK WITH OHMMETER ACROSS CAPACITOR ON PCB SHOULD READ APPROX. 400 TO 450Ω. IF READING IS ABOVE 4000Ω REPLACE.
- 2B. SHOULD HAVE ONE LOOP OF WIRE COMING FROM INVERTOR BOARD CURRENT TRANSFORMER.

MAKE OHMMETER CHECKS ACROSS CAPACITOR

INVERTOR BOARD CURRENT TRANS.

**TWO LOOPS** 

OF WIRE

MAKE OHMMETER CHECKS ACROSS CAPACITOR

CURRENT TRANSFORMER MODULE BASE

BRIDGE I

ONE LOOP OF WIRE

ADJUSTMENT POTS WIRE CONNECTORS



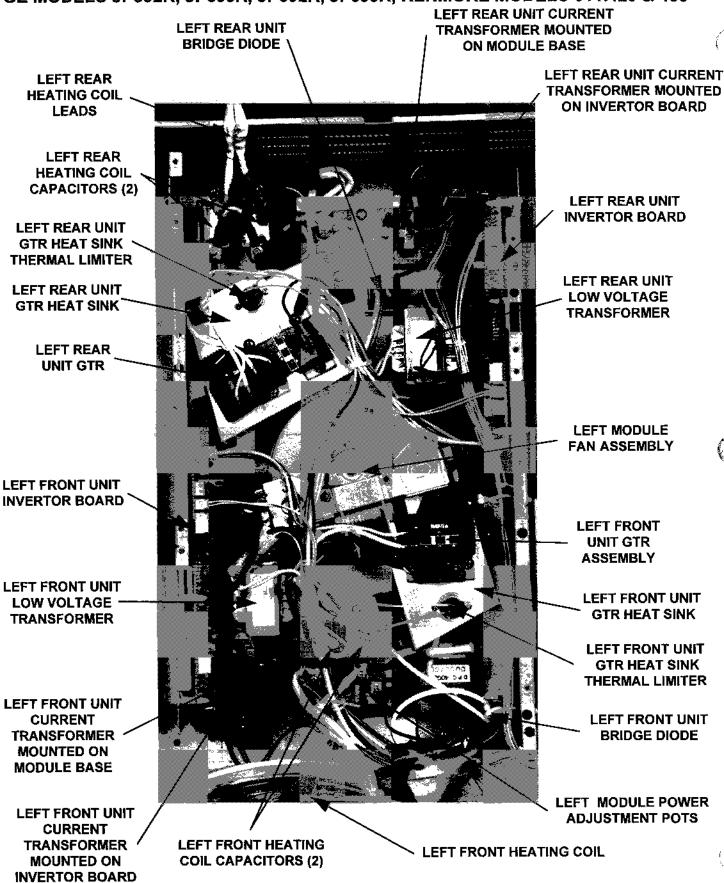
# POWER LEVEL ADJUSTMENT POTS WIRE CONNECTORS

CHECK TO MAKE SURE WIRE CONNECTORS ARE PROPERLY SEATED ON BOARD BEHIND POTS. **DO NOT ADJUST POTS.** 

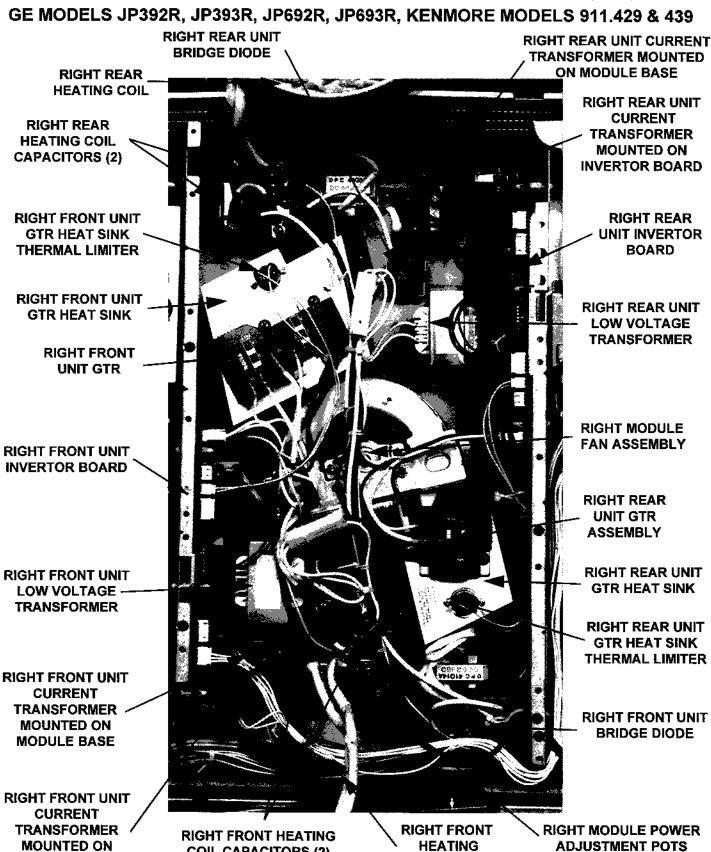
GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439

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**LEFT POWER MODULE** 



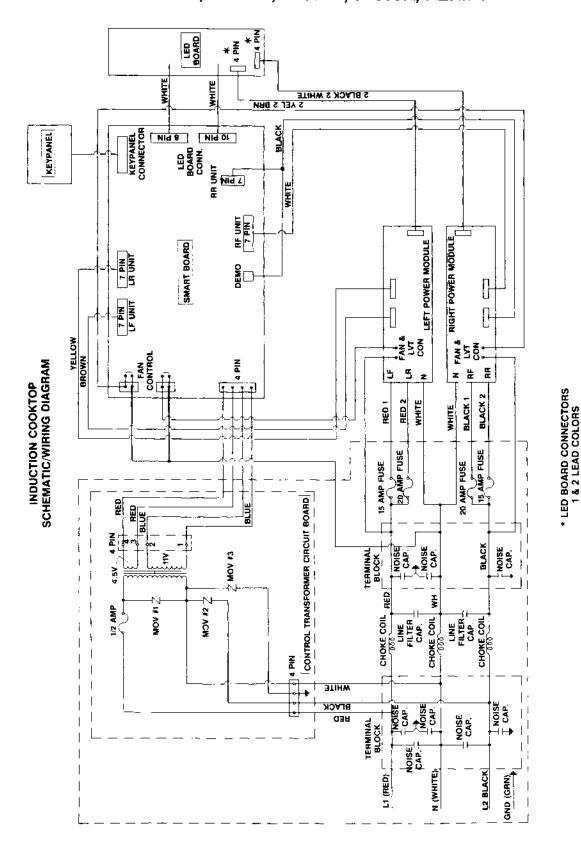
### RIGHT POWER MODULE

**COIL LEADS** 

**COIL CAPACITORS (2)** 

**INVERTOR BOARD** 

GE MODELS JP392R, JP393R, JP692R, JP693R, KENMORE MODELS 911.429 & 439



MODEL	LED 4 PIN CONN	LED 4 PIN CONNECTOR BLOCKS
SERIES	CONNECTOR 1	CONNECTOR 2
ЭĐ	въдск	VELLOW
SERIES	WHITE LEADS	BROWN LEADS
429/439	моттза	видск
SERIES	BROWN LEADS	WHITE LEADS

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## **NOTES**

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# NOTES

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