

SVMW820EIA SVMW820EIB

## **MICROWAVE OVEN**

MODEL: Built-In Digital Solo Built-In Digital Grill

November, 2017

This document is published to be used for after sales service only. The content are subject to change without prior notice.

In interest of user safety the appliance should be restored to its original condition and only parts identical to those should be applied.

## CONTENTS

CAUTIONS	1
INSTALLATIONS	2
SERVICE INFORMATION	3
TOOLS AND MEASURING INSTRUMENTS	3
MICROWAVE LEAKAGE TEST	3
MEASUREMENT OF MICROWAVE POWER OUTPUT	5
DISASSEMBLY AND ADJUSTMENT	5
1. Trim Assembly Removal	5
2. Outer Case Removal	5
3. Power Supply Cord Removal	6
4. Control Panel Assembly Removal	6
5. Door Assembly Removal	6
6. High Voltage Transformer Removal	6
7. Orifice Assembly Removal	6
8. H.V. Capacitor And Diode Removal	7
9. Air Guide Assembly Removal	7
10. Magnetron Removal	7
11. Turntable Motor Removal	7
12. PCB Assembly Removal	8
13. Interlock System	8
INTERLOCK CONTINUITY TEST	9
1. Primary Interlock Switch Test	9
2. Secondary Interlock Switch Test	9
3. Monitor Switch Test	9
COMPONENT TEST PROCEDURE	10
TROUBLE SHOOTING	14
ATTACHED FILES LIST	20

## CAUTIONS

Unlike other appliances, the microwave oven is high-voltage and high-current equipment. Though it is free from danger in ordinary use, extreme care should be taken during repair.

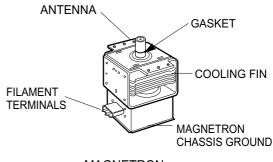
- DO NOT operate on a 2-wire extension cord during repair and use.
- NEVER TOUCH any oven components or wiring during operation.
- BEFORE TOUCHING any parts of the oven, always remove the power plug from the outlet.
- For about 30 seconds after the oven stops, an electric charge remains in the high voltage capacitor. When replacing or checking, you must discharge the high voltage capacitor by shorting across the two terminals with an insulated screwdriver.

- Remove your watches whenever working close to or replacing the Magnetron.
- NEVER operate the oven with no load.
- NEVER injure the door seal and front plate of the oven cavity.
- NEVER put iron tools on the magnetron.
- NEVER put anything into the latch hole and the interlock switches area.

### MICROWAVE RADIATION

Personnel should not be exposed to the microwave energy which may radiate from the magnetron or other microwave generating device if it is improperly used or connection. All input and output microwave connections, waveguide, flange and gasket must be secure never operate the device without a microwave energy absorbing load attached. Never look into an open waveguide or antenna while the device is energized.

- Proper operation of the microwave oven requires that the magnetron be assembled to the waveguide and cavity. Never operate the magnetron unless it is properly installed.
- Be sure that the magnetron gasket is properly installed around the dome of the tube whenever installing the magnetron.



MAGNETRON

THE OVEN IS TO BE SERVICED ONLY BY PROPERLY QUALIFIED SERVICE PERSONNEL.

## INSTALLATIONS

BEFORE YOU BEGIN, READ THE FOLLOWING INSTRUCTIONS COMPLETELY AND CAREFULLY.

### INSTALLING

- 1. Empty the microwave oven and clean inside it with a soft, damp cloth. Check for damage such as misaligned door, damage around the door or dents inside the cavity or on the exterior.
- 2. This oven is intended for built-in use only. it's not intended for counter-top use or for use inside a cupboard.
- 3. The appliance is fitted with a plug and must only be connected to a properly installed earthed socket.
- 4. The mains voltage must correspond to be voltage specified on the rating plate.
- 5. The socket must be installed and connecting cable must only be replaced by a qualified electrician. If the plug is no longer to accessible following installation, an all-pole disconnecting device must be present on the installation side with a contact gap of at least 3mm.
- 6. Adaters, multi-way strips and extension leads must not be used. Overloading can result ain a risk of fire.



This microwave oven is designed to be used in a fully earthed condition. It is imperative, therefore, to make sure it is properly earthed before servicing

### WARNING-THIS APPLIANCE MUST BE EARTHED

#### IMPORTANT

Brown:

The wires in this mai accordance with the follo	ns lead are colored in owing code:
Green-and-yellow:	Earth
Blue:	Neutral

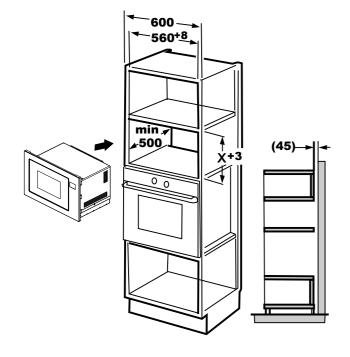
Live

As the colors of the wires in the mains lead of this appliance may not correspond with the colored markings identifying the terminals in your plug, proceed as follows.

The wire which is colored green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol  $(\frac{1}{2})$  or colored green or green-and-yellow.

The wire which is colored blue must be connected to the terminal in the plug which is marked with the letter N or colored black .

The wire which is colored brown must be connected to the terminal in the plug which is marked with the letter L or colored red.



## SERVICE INFORMATION

### TOOLS AND MEASURING INSTRUMENTS

#### NECESSARY TOOLS

Tools normally used for TV servicing are sufficient. Standard tools are listed below.

- Diagonal pliers
- Long nose pliers
- Phillips screwdriver
- Flat blade screwdriver
- Wrench (size 5mm)
- Nutdriver (size 5mm)
- Adjustable wrench
- Soldering iron
- Solder
- Vinyl insulation tape
- · Polishing cloth

## MICROWAVE LEAKAGE TEST

#### CAUTIONS

- Be sure to check microwave leakage prior to servicing the oven if the oven is operative prior to servicing.
- The service personnel should inform the manufacture importer, or assembler of any certified oven unit found to have a microwave emission level in excess of 5 mW/cm <sup>2</sup> and should repair any unit found to have excessive emission levels at no cost to the owner and should ascertain the cause of the excessive leakage. The service personnel should instruct the owner not to use the unit until the oven has been brought into compliance.
- If the oven operates with the door open, the service personnel should:
  - Tell the user not to operate the oven.
  - Contact the manufacturer.
- The service personnel should check all surface and vent openings for microwave leakage.
- Check for microwave leakage after every servicing. The power density of the microwave radiation leakage emitted by the microwave oven should not exceed 4 mW/cm<sup>2</sup>. Always start measuring of an unknown field to assure safety for operating personnel from radiation leakage.

#### NECESSARY MEASURING INSTRUMENTS

- TESTER(VOLTS-DC, AC., Ohmmeter)
- Microwave survey meter
- Holaday HI-1500
- HI-1501
- Narda 8100 8200
- Inch scale
- 600 cc non conductive material beaker (glass or plastic), inside diameter: approx. 8.5 cm(3<sup>1</sup>/<sub>2</sub> in.)
- Cylindrical and made of borosilicate glass vessel. max. thickness: 3 mm outside diameter: approx. 190mm height: approx. 90mm
- Glass thermometer: 100°C or 212°F (1 deg scale)

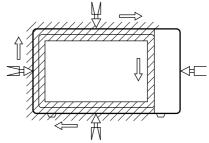
## MEASURING MICROWAVE ENERGY LEAKAGE

- Pour 275±15cc of 20±5°C(68±9°F) water in a beaker which is graduated to 600 cc, and place the beaker on the center of the turntable.
- Set the energy leakage monitor to 2450 MHz and use it following the manufacturer's recommended test procedure to assure correct result.
- When measuring the leakage, always use the 2inch (5cm) spacer supplied with the probe.
- · Operate the oven at its maximum output.
- Measure the microwave radiation using and electromagnetic radiation monitor by holding the probe perpendicular to the surface being measured

Move probe along shaded area

#### Probe scanning speed

Less than 2.5 cm/sec (1in/sec)



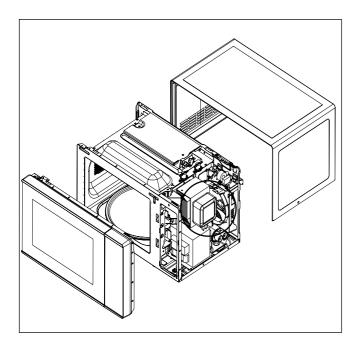
# MEASUREMENT WITH OUTER CASE REMOVED

 When you replace the magnetron, measure for microwave energy leakage before the outer case is installed and after all necessary components are replaced or adjusted.

Special care should be taken in measuring the following parts. (Circled area of below Fig.) - Around the magnetron

- Around the magnet
- The waveguide

#### WARNING : AVOID CONTACTING ANY HIGH VOLTAGE PARTS



#### MEASUREMENT WITH A FULLY ASSEMBLED OVEN

- After all components, including the outer case, are fully assembled, measure for microwave energy leakage around the door viewing window, the exhaust opening, and air inlet openings.
- Microwave energy leakage must not exceed the values prescribed below.
- NOTE: Leakage with the outer case removedless than 5 mW/cm<sup>2</sup>.sq. Leakage for a fully assembled oven (Before the latch switch (primary) is interrupted) with the door in a slightly opened position-less than 2 mW/cm<sup>2</sup>.sq.

#### NOTES WHEN MEASURING

- Do not exceed meter full scale deflection.
- The test probe must be removed no faster than 1 inch/sec (2.5 cm/sec) along the shaded area, otherwise a false reading may result.
- The test probe must be held with the grip portion of the handle.
- A false reading may result if the operator's hand is between the handle and the probe.
- When testing near a corner of the door, keep the probe perpendicular to the surface making sure the probe horizontally along the oven surface, this may possibly cause probe damage.

## RECORD KEEPING AND NOTIFICATION AFTER MEASUREMENT

- After adjustment and repair of any microwave energy interruption or microwave energy blocking device, record the measured values for future reference. Also enter the information on the service invoice.
- The microwave energy leakage should not be more than 4 mW/cm<sup>2</sup>.sq. after determining that all parts are in good condition, functioning properly and genuine replacement parts which are listed in this manual have been used.
- At least once a year, have the electromagnetic energy leakage monitor checked for calibration by its manufacturer.

## MEASUREMENT OF MICROWAVE POWER OUTPUT

- Microwave power output measurement is made with the microwave oven supplied at its rated voltage and operated at its maximum microwave power setting with a load of (1000±5) g of potable water.
- The water is contained in a cylindrical borosilicate glass vessel having a maximum material thickness of 3 mm and an outside diameter of approximately 190mm.
- The oven and the empty vessel are at ambient temperature prior to the start of the test.
- The initial temperature (T1) of the water is (10±2)°C. It is measured immediately before the water is added to the vessel. After addition of the water to the vessel, the load is immediately placed on the center of the turntable which is in thd lowest position and the microwave power switched on.
- The time T for the temperature of the water to rise by a value  $\Delta$  T of  $(10\pm2)^{\circ}$ K is measured, where T is the time in seconds and  $\Delta$ T is the temperature rise. The initial and final water temperatures are selected so that the maximum difference between the final water temperature and the ambient temperature is 5°K.
- The microwave power output P in watts is calculated from the following formula :

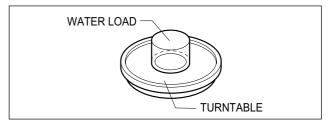
т

$$P = \frac{4187 \text{ x} (\Delta \text{T}) + 0.55 \text{ X} (\text{T}_2 - \text{T}_0) \text{ X M}}{2}$$

- T2: Temperature after heating
- To: Temperature of bowl
- M: Weight of bowl

#### is measured while the microwave generator is operating at full power. Magnetron filament heat-up time is not included. (about 3 sec)

- The water is stirred to equalize temperature throughout the vessel, prior to measuring the final water temperature.
- Stirring devices and measuring instruments are selected in order to minimize addition or removal of heat.



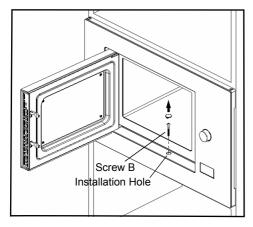
#### NOTES:

For simple tests of micromave power output, conduct it by heating one litre water for one minute, minimum temperature rise should be 6 °C

DISASSEMBLY AND ADJUSTMENT

#### 1. TRIM ASSEMBLY REMOVAL

- 1) Open the door, remove the Screw B from the installation hole.
- 2) Pull the Microwave oven out.
- 3) Remove the screw holding Trim Assembly to Cavity.



#### 2. OUTER CASE REMOVAL

- 1) Disconnect the power supply cord from the outlet.
- 2) Remove the screws from the rear and along side edges of the case.

The outer case must be moved backward to be lifted off.

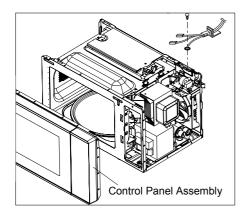
#### 3. POWER SUPPLY CORD REMOVAL

- 1) Remove the outer case.
- 2) Disconnect two terminals, and remove one screw of the earth terminal.

CAUTION: DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE SERVICING (refer to page 1)

#### 4. CONTROL PANEL ASSEMBLY REMOVAL

- 1) Disconnect the leadwire from the PCB SUB ASS'Y.
- 2) Remove the screws for the earth and securing the control panel.
- 3) Lift control panel ASS'Y from the oven by the tab unhooked.

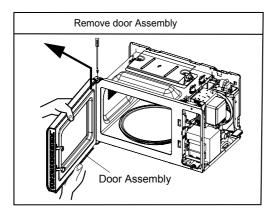


#### 5. DOOR ASSEMBLY REMOVAL

- 1) Open the door.
- 2) Remove two screws holding the Hinge to the Cavity Ass'y.
- CAUTION : Be careful not to damage Door C by screwdriver.
- 3) Lift up and pull the door.

#### NOTE:

- 1. After replacing the door, be sure to check that the primary switch, monitor switch, and secondary switch operate normally.
- 2. After replacing the door, check for microwave energy leakage with a survey meter. Microwave energy must be below the limit of 5 mW/cm<sup>2</sup>. (with a 275 ml water load)
- 3. When mounting the door assembly to the oven assembly, be sure to adjust the door assembly parallel to the chassis. Also adjust so the door has no play between the inner door surface and oven frame assembly. If the door assembly is not mounted properly, microwaves may leak from the clearance between the door and the oven.



#### 6. HIGH VOLTAGE TRANSFORMER REMOVAL

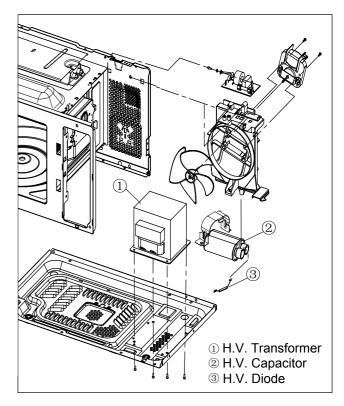
- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from magnetron, high voltage transformer, and capacitor.
- 3) Remove the screw holding the high voltage transformer to the baseplate.

#### 7. ORIFICE ASSEMBLY REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from fan motor, noise filter and high voltage capacitor.
- Remove the two screws holding the orifice ASS'Y to the oven cavity and remove the high voltage diode earth screw.
- 4) Remove the screw of the capacitor bracket.
- 5) Remove the two screws holding the fan motor ASS'Y to the Orifice ASS'Y.

#### 8. H.V. CAPACITOR AND DIODE REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from fan motor, noise filter and high voltage capacitor.
- Remove the screw holding the Orifice ASS'Y to the oven cavity and remove the high voltage diode earth screw.
- Remove the screw holding the high voltage capacitor bracket.



#### 9. AIR GUIDE ASSEMBLY REMOVAL

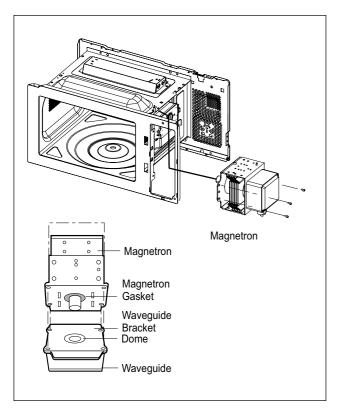
- 1) Disconnect the leadwire from lamp, A.C Relay and monitor resistor and magnetron.
- 2) Remove the screw to the cavity.

#### **10. MAGNETRON REMOVAL**

- 1) Disconnect the leadwire from the high voltage transformer and high voltage capacitor.
- 2) Remove the air guide.
- 3) Carefully remove the mounting screws holding the magnetron and the waveguide.
- 4) Remove the magnetron until the tube is clear from the waveguide.

#### NOTE:

- 1. When removing the magnetron, make sure its dome does not hit any adjacent parts, or it may be damaged.
- 2. When replacing the magnetron, be sure to install the magnetron gasket in the correct position and be sure that the gasket is in good condition.
- 3. After replacing the magnetron, check for microwave leakage with a survey meter around the magnetron. Microwave energy must be below the limit of 5 mW/cm². (With a 275 ml. water load). Make sure that gasket is rigidly attached to the magnetron. To prevent microwave leakage, tighten the mounting screws properly, making sure there is no gap between the waveguide and the magnetron.

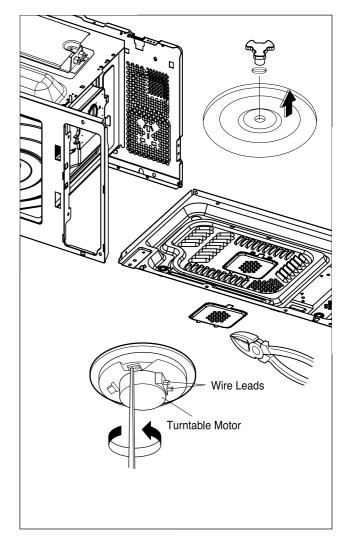


#### 11. TURNTABLE MOTOR REMOVAL

- 1) Remove the glass tray.
- 2) Remove the pulley shaft VERY CAREFULLY
- 3) Lay the unit down on its back.
- Remove the turntable motor cover. The turntable base cover is easily removed by pinching the six parts with a wire cutting.
- 5) Disconnect the leadwire from the turntable motor terminals.
- 6) Remove the screw securing the turntable motor to the oven cavity ASS'Y
- 7) After replacing the motor, rotate the removed turntable motor cover.
- 8) Fit the turntable motor cover's projecting part to the base plate slit.

#### NOTE:

- 1. Remove the wire lead from the turntable motor VERY CAREFULLY.
- 2. Be sure to grasp the connector, not the wires, when removing



#### 12. PCB ASSEMBLY REMOVAL

- 1) Remove the control panel assembly from the cavity.
- 2) Remove screws which hold the PCB to the control panel.
- 3) Disconnect the flat cable from the PCB and take off the PCB .

#### 13. INTERLOCK SYSTEM

1) INTERLOCK MECHANISM

The door lock mechanism is a device which has been specially designed to eliminate completely microwave activity when the door is opened during cooking and thus to prevent the danger resulting from the microwave leakage.

2) MOUNTING OF THE PRIMARY/MONITOR/ SECONDARY SWITCHES TO THE LATCH BOARD

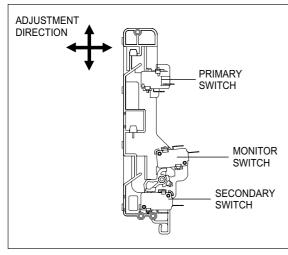


Fig.1 For Common Built-In Model

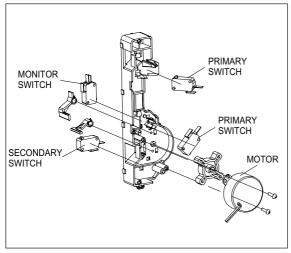
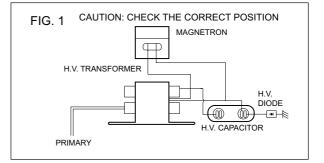


Fig.2 For Electric Door Control Built-In Model

- 3) INSTALLATION AND ADJUSTMENT OF THE LATCH BOARD TO THE OVEN ASSEMBLY
- Mount the latch board to the oven assembly.
- Adjust the latch board in the arrow direction so that oven door will not have any play in it when the door is closed.
- Tighten the mounting screw.
- Check for play in the door by pushing the door release button. Door movement should be less than 0.5 mm. (1/64 inch)

Don't push the door release button while making adjustment. Make sure that the latch moves smoothly after adjustment are completed and that the screws are tight. Make sure the primary, monitor, and secondary switches operate properly by following the continuity test procedure.



## INTERLOCK CONTINUITY TEST

#### WARNING : FOR CONTINUED PROTECTION AGAINST EXCESSIVE RADIATION EMISSION, REPLACE ONLY WITH IDENTICAL REPLACEMENT PARTS.

#### TYPE NO. KW3A FOR SWITCHS

#### **1. PRIMARY INTERLOCK SWITCH TEST**

When the door release button is depressed slowly with the door closed, an audible click should be heard at the same time or successively at intervals. When the button is released slowly, the latches should activate the switches with an audible click.

If the latches do not activate the switches when the door is closed, the switches should be a adjusted in accordance with the adjustment procedure. Disconnect the wire lead from the primary switch. Connect the ohmmeter leads to the common (COM) and normally open (NO) terminal of the switch. The meter should indicate an open circuit in the door open condition. When the door is closed, the meter should indicate a closed circuit.

When the primary switch operation is abnormal, make the necessary adjustment or replace the switch only with the same type of switch.

#### 2 . SECONDARY INTERLOCK SWITCH TEST

Disconnect the wire lead from the secondary switch.

Connect the ohmmeter leads to the common (COM) and normally open (NO) terminals of the switch. The meter should indicate a open circuit in the door open condition. When the door is closed, meter should indicate an closed circuit. When the secondary switch operation is abnormal, make the necessary adjustment or replace the switch only with the same type of switch.

#### 3. MONITOR SWITCH TEST

Disconnect the wire lead from the monitor switch. Connect the ohmmeter leads to the common (COM) and normally closed (NC) terminals of the switch. The meter should indicate closed circuit in the door open condition. When the door is closed, meter should indicate an open circuit. When the monitor switch operation is abnormal, replace with the same type of switch.

NOTE: After repairing the door or the interlock system, it is necessary to do this continuity test before operating the oven.

COMPONENTS	TEST PROCEDURE RESULTS		JLTS	
SWITCHES (Wire leads removed)	Check for continuity of the switch with an Ohm-meter		Door open	Door closed
	Primary Switch Type No.KW3A		∞°	°
	Monitor Switch Type No.KW3A		ő	× ×
	Secondary Switch Type No.KW3A		∞°	°
	NOTE : After checking for the continuity of switches, make sure that are correctly connected.			at are

## COMPONENT TEST PROCEDURE

#### CAUTIONS

- 1. DISCONNECT THE POWER SUPPLY CORD FROM THE OUTLET WHENEVER REMOVING THE OUTER CASE FROM THE UNIT. PROCEED WITH THE TEST ONLY AFTER DISCHARGING THE HIGH VOLTAGE CAPACITOR AND REMOVING THE WIRE LEADS FROM THE PRIMARY WINDING OF THE HIGH VOLTAGE TRANSFORMER. (SEE PAGE 1)
- 2. ALL OPERATIONAL CHECKS WITH MICROWAVE ENERGY MUST BE DONE WITH A LOAD (1 LITER OF WATER IN CONTAINER) IN THE OVEN.

COMPONENTS	TEST PROCEDURE	RESULTS
HIGH VOLTAGE TRANSFORMER (Wire leads removed)	FILAMENT WINDING TERMINAL       Image: Control of the second argument of t	Approx.: 1.4 ohm Approx.: 90 ohm Less than: 1 ohm Normal: Infinite Normal: Infinite
MAGNETRON (Wire leads removed)	<ol> <li>Measure the resistance. (Ohm-meter scale: Rx1)         <ul> <li>Filament terminal</li> </ul> </li> <li>Measure the resistance. (Ohm-meter scale: Rx1000)         <ul> <li>Filament to chassis</li> </ul> </li> </ol>	Normal: Less than 1 ohm Normal: Infinite

COMPONENTS	TEST PROCEDURE	RESULTS
	Antenna Gasket Chassis Filament	
	NOTE: When testing the magnetron, be sure in the correct position and be sure the	
HIGH VOLTAGE CAPACITOR	Measure the resistance. (Ohm-meter scale: Rx1000) • Terminal to terminal.	Normal: Momentarily indicates several ohms, and then gradually returns to 10M ohms.
	Measure the resistance. (Ohm-meter scale: Rx1000) • Terminal to case.	Normal: ∞
HIGH VOLTAGE DIODE *NOTE : Some inexpensive meters	Measure the continuity (Forward). (Ohm-meter scale: Rx10000)	Normal: Continuity. Abnormal: ∞ ★
may indicate infinite resistance in both direction.	Measure the continuity (Reverse). (Ohm-meter scale: Rx10000)	Normal: ∞ Abnormal: Continuity.

COMPONENTS	TEST PROCEDURE	RESULTS	
FUSE	Check for continuity of the fuse with an multi-meter.	Normal	Abnormal
		∞ °	× 0
	NOTE: If the fuse is blown, check the primary, the secondary, and the monitor switches H.V.D. and H.V.C. before replacing the fuse. If the fuse is blown by improper switch operation replace the defective switch and the fuse at the same time. Replace just the fuse if the switches operate normally.		
HEATER ELEMENT (Wire leads removed.)	Measure the resistance. (Multi-meter scale: Rx1)	Normal: *Grill heater Approx. 38 ohm (at 20 ~ 30°C)	
	Measure the resistance with 500V-100M ohm insulation resistance meter.	Normal: more th	an 0.5 Mohm
	NOTE: Make sure heater is fully cooled when tested.		
THERMAL CUT-OUT		Below specified temperature	Above specified temperature
		°°°°°	×

COMPONENTS	TEST PROCEDURE	RESULTS	
L.V.Transformer of P.C.B (Refer to schemetic diagram)	Check for P.C.B. connector. *Disconnect the 3 pin connector from P.C.B.	Normal	Abnormal
		∞°	<sup>∞</sup> C°
		Cooking Start	OFF
RELAY 2, RELAY 3 OF P.C.B. (Wire leads removed.) Note: Relay Relay 1: Fan motor Turntable motor Oven lamp Relay 2: Microwave Relay 3: Grill	Relay 3 Relay 1 Relay 1 Relay 2	∞°	∞°
FAN MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1)	Normal: 100~50 Abnormal: ∞ or s	
TURNTABLE MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1000)	Normal: Approx.100~200KΩ Abnormal: ∞ or several Ω	
SERVICED FOR A • MAKE SURE THE	WIRE LEADS ARE IN THE CORRECT POSIT	ION.	

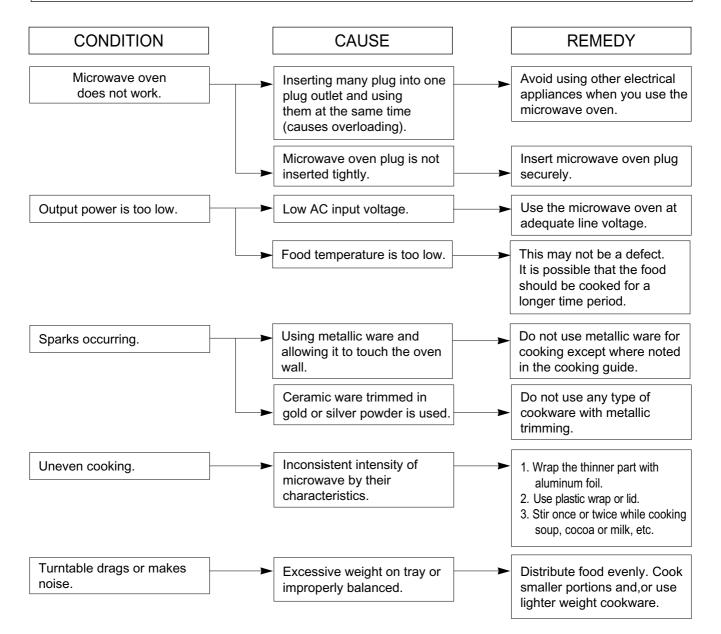
## TROUBLE SHOOTING

WHEN YOU GET A COMPLAINT FROM YOUR CUSTOMER, EVALUATE THE COMPLAINT CAREFULLY. IF THE FOLLOWING SYMPTOMS APPLY, PLEASE INSTRUCT THE CUSTOMER IN THE PROPER USE OF THE MICROWAVE OVEN. THIS CAN ELIMINATE AN UNNECESSARY SERVICE CALL.

#### CAUTIONS

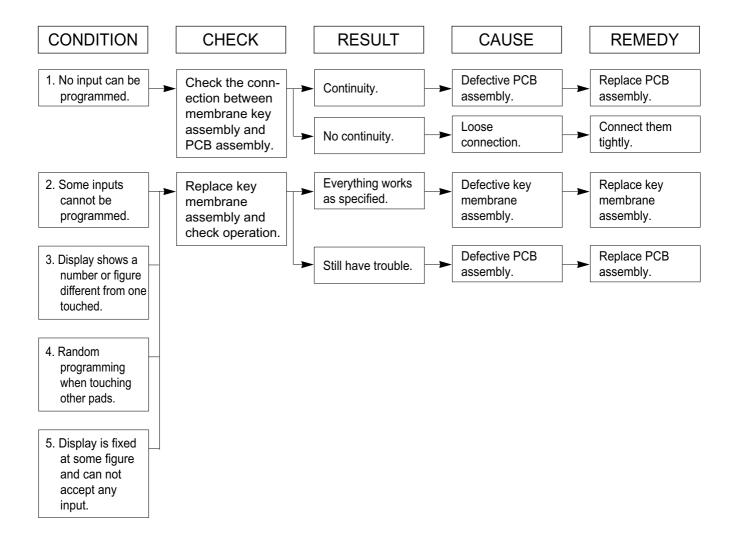
- 1. Check grounding before checking for trouble.
- 2. Be careful of the high voltage circuit.
- 3. Discharge the high voltage capacitor. (See page 1)
- 4. When checking the continuity of the switches or of the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.
- 5. Do not touch any part of the circuitry on the digital programmer circuit since static electric discharge may damage this control panel.

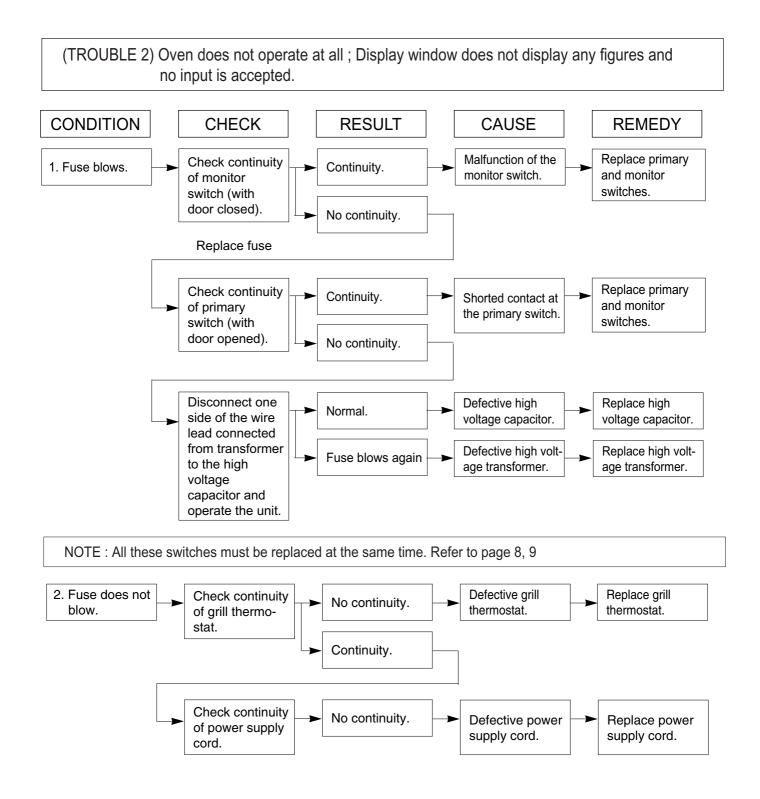
Always touch yourself ground while working on this panel to discharge any static charge built up in your body.

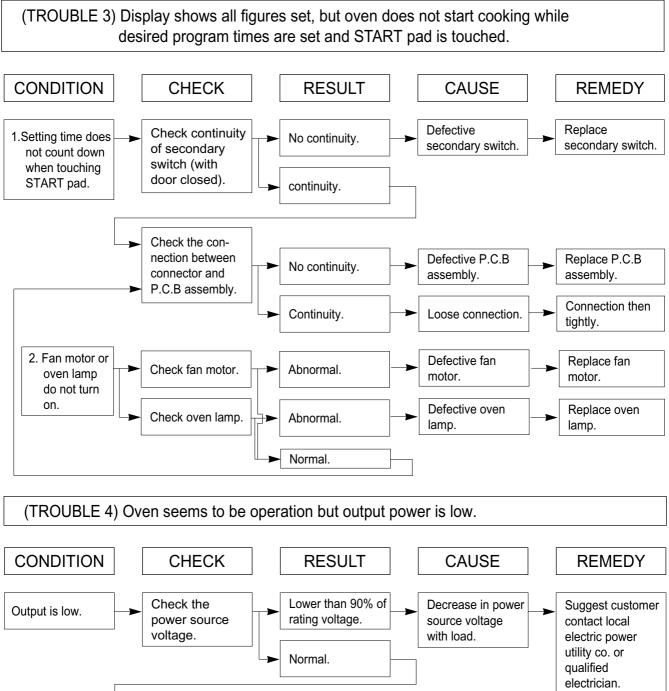


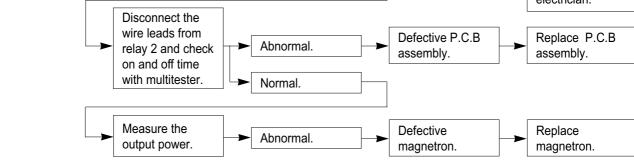
#### (TROUBLE 1) The following visual conditions indicate a probable defective control circuit.

- 1. Incomplete segments.
  - Segment missing.
  - Partial segment missing.
  - Digit flickering (NOTE: Slight flickering is normal.)
- 2. Colon does not turn on or blink.
- 3. A distinct change in the brightness of one or more numbers in display.
- 4. One or more digits in the display are not lighting.
- 5. Display indicates a number different from one touched, for example, key in 5 and 3 appears in the display.
- 6. Specific numbers (for example 7 or 9) will not display when key pad is touched.
- 7. Display does not count down with time blinking or up with clock operation.
- 8. Display obviously jumps in time while counting down.
- 9. Display counts down too fast while cooking.
- 10. Each indicator light does not turn on after setting cooking cycle.
- 11. Display time of day does not reappear when cooking is finished.
- 12. Beep sound is not heard when correct key is touched.

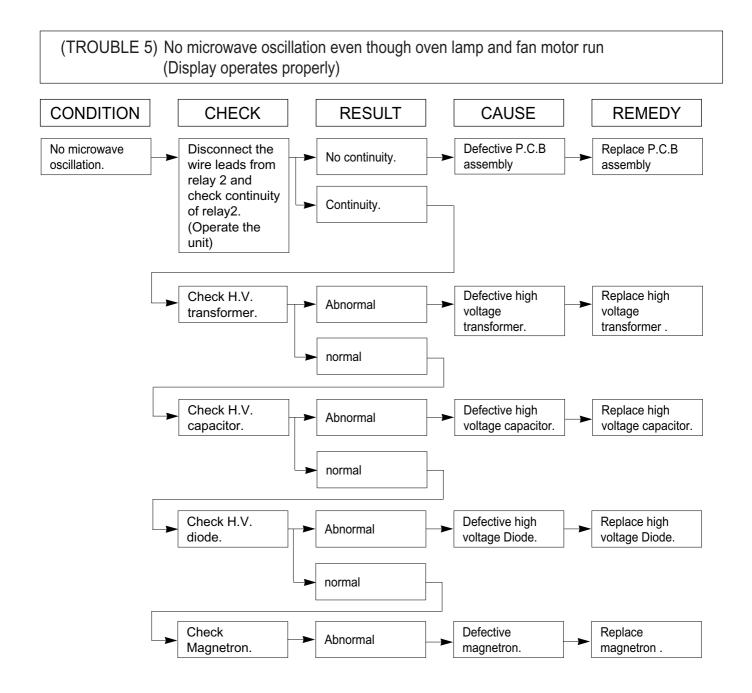


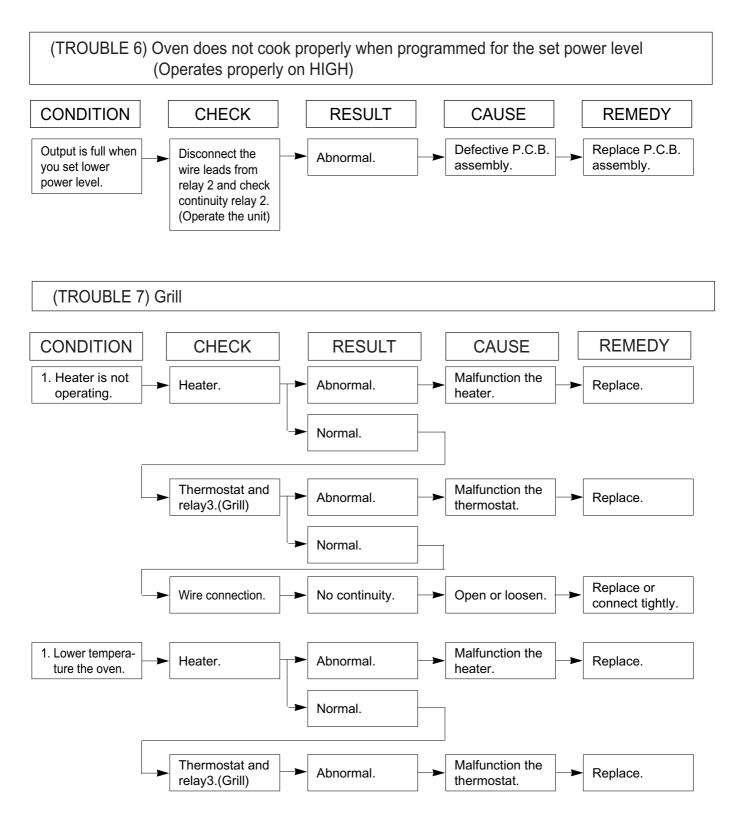






NOTE: Refer to Page 5 for measuring of microwave power output.





- NOTE: \* Make sure the wore leads correct position.
  - \* When removing the wire leads from parts be sure to grasp the connector not the wires.
  - \* When removing the magnetron, be sure to install the magnetron gasket in the correct position and in good condition.