



MICROWAVE OVEN SERVICE MANUAL

MODEL: MAK7553W

CAUTION

BEFORE SERVICING THE UNIT, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

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SAFETY PRECAUTIONS

This device is to be serviced only by properly qualified service personnel.

Consult the service manual for proper service procedures to assure continued safety operation and for precautions to be taken to avoid possible exposure to excessive microwave energy.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- A) Do not operate or allow the oven to be operated with the door open.
- B) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary; (1) Interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
- C) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- D) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- E) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

CAUTION MICROWAVE RADIATION

DO NOT BECOME EXPOSED TO RADIATION FROM THE MICROWAVE GENERATOR OR OTHER PARTS CONDUCTING MICROWAVE ENERGY.

CONTENTS

	(Page)
SAFETY PRECAUTIONS Inside front co	ver
SPECIFICATIONS	1-1
CAUTIONS	2-1
INSTALLATIONS	3-1
OPERATING INSTRUCTIONS	4-1
FEATURES	4-1
CONTROL PANEL	4-1
OPERATING SEQUENCE	4-2
SCHEMATIC DIAGRAM (I) ······	4-3
SCHEMATIC DIAGRAM (II)	4-4
CIRCUIT DESCRIPTION	4-5
SERVICE INFORMATION	5-1
TOOLS AND MEASURING INSTRUMENTS	5-1
MICROWAVE LEAKAGE TEST	5-1
MEASUREMENT OF MICROWAVE POWER OUTPUT	5-3
DISASSEMBLY AND ADJUSTMENT	5-3
INTERLOCK CONTINUITY TEST	5-7
COMPONENT TEST PROCEDURE	5-8
TROUBLE SHOOTING	-11
EXPLODED VIEW	6-1
DEDI ACEMENT DADTO LICT	7 1

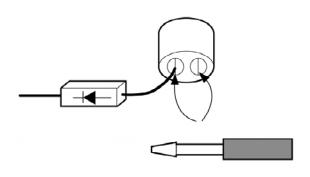
SPECIFICATION

ITEM	DESCRIPTIONS
MODEL	MAK7553W
Power Requirement	120 Volts AC 60 Hz
	850 Watts (8.0 A)
	Single phase, 3-wire grounded
Power Output	600 Watts full microwave power (IEC60705)
Microwave Frequency	2450MHz
Magnetron	2M288 - 09
Timer	0 ~ 35 min.
Outside Dimensions	18 ¹ /8"(W) x 10 ³ /16"(H) x 13 ⁵ /32"(D)
Cavity Dimensions	12 ¹³ / ₃₂ "(W) x 7 ¹⁵ / ₁₆ "(H) x 11 ¹⁹ / ₃₂ "(D)
Net Weight	24.7 lbs (approx.)
Shipping weight	26.9 lbs (approx.)
Control Complement	Microwave Power for Variable Cooking
	Power level
	High
	Medium
	Low
	åå Defrost
	Warm
Rating Label Location	Back Plate
Accessories	Owner's manual & cooking guide
	Glass turntable
	Roller rest

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 stop, an electric charge remains in the high voltage capacitor. When replacing or checking, must be discharge the high voltage capacitor by shorting across the two terminals with an insulated screwdriver.



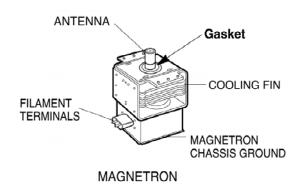
- Remove your watches whenever working close to or replacing the Magnetron.
- NEVER operate the oven with no load.
- · NEVER injure the door seal and front plate of the oven cavity.
- NEVER put iron tools on the magnetron.
- NEVER put anything into the latch hole and the interlock swiches area.

MERADIATION

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.



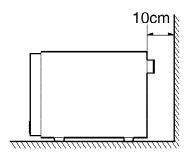
THE OVEN IS TO BE SERVICED ONLY BY PROPERLY QUALIFIED SERVICE PERSONNEL.

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.
- Put the oven on a counter, table or shelf that is strong enough to hold the oven and the food and utensils you put in it. (The control panel side of the oven is the heavy side. Use care when handling.)
- 3. Do not block the vent and the air intake openings. Blocking vent or air intake openings can cause damage to the oven and poor cooking results. Make sure the microwave oven legs are in place to ensure proper air flow.
- The oven should not installed in any area where heat and steam are generated, because they may damage the electronic or mechanical parts of the unit.
 - Do not install the oven next to a conventional surface unit or above a conventional wall oven.
- 5. Use microwave oven in on ambient temperature less than 104°F(40°C).
- 6. Place the microwave oven on a sturdy and flat surface, at least 10 Cm(4 inches) from the wall.
- 7. Place the microwave oven as far away as possible from TV, RADIO, COMPUTER etc., to prevent interference.



GROUNDING INSTRUCTIONS

For personal safety, this appliance must be fully grounded at all times.

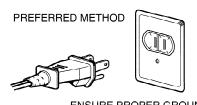
In the event of an electrical short circuit, grounding reduces the risk of electrical shock.

The plug must be plugged into an outlet that is properly installed and grounded.

WARNING

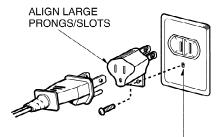
Improper use of the grounding plug can result in a risk of electric shock.

Do not, under any circumstances, cut or remove the third ground prong from the power cord plug.



ENSURE PROPER GROUND EXISTS BEFORE USE

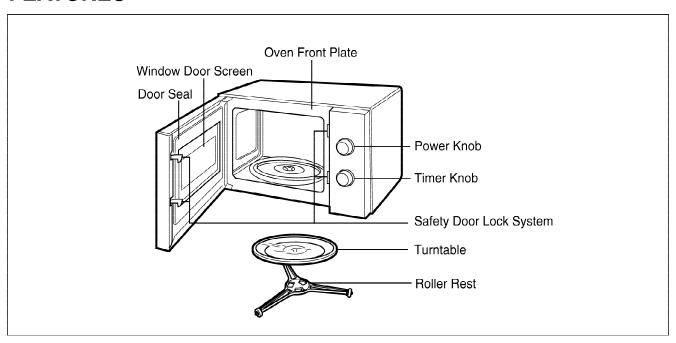
TEMPORARY METHOD (ADAPTER PLUGS NOT PERMITTED IN CANADA)



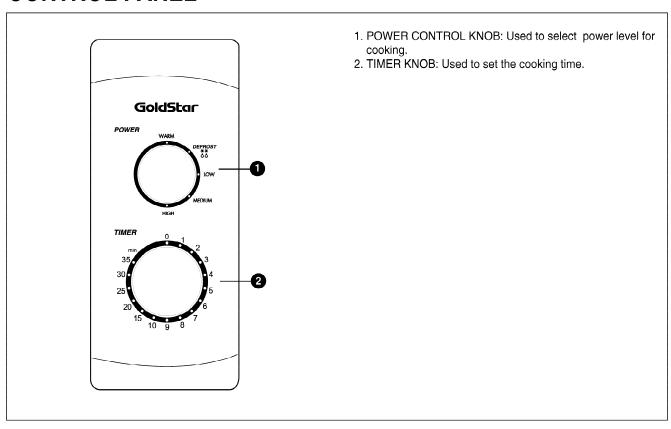
ENSURE PROPER GROUND AND FIRM CONNECTION BEFORE USE

OPERATING INSTRUCTIONS

FEATURES



CONTROL PANEL



OPERATING SEQUENCE

MICROWAVE COOKING

- 1. Open the oven door, place the food on the turntable in the oven, and close the oven door.
- 2. Set the microwave power selector to the desired power level. There are five power levels from 90W to MAX. The power selector can be set to any one of these positions.

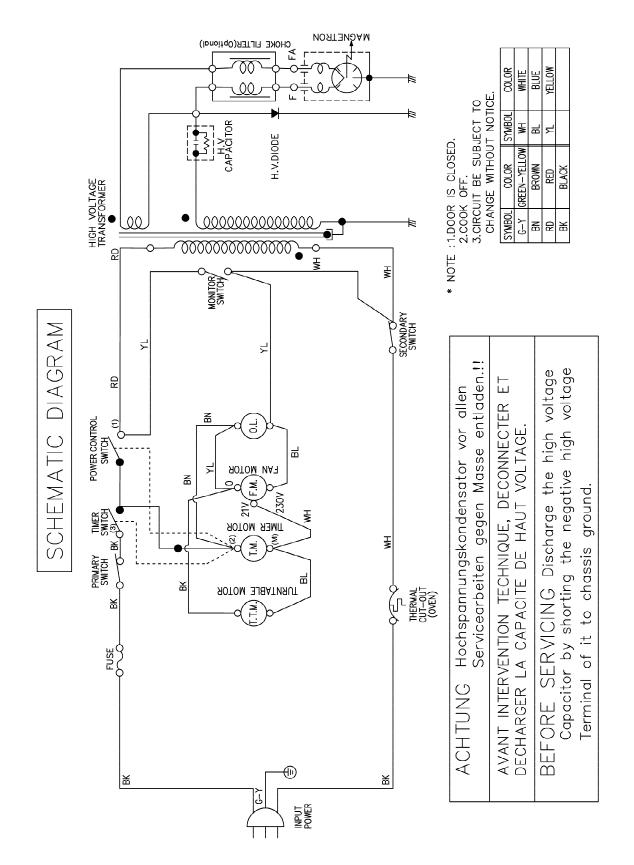
POSITIONS	
HIGH	
MEDIUM	
LOW	
** DEFROST	
WARM	

 Set the timer to the desired cooking time. The turntable begins to rotate and cooking starts. At the end of cooking time you will a single ring sound, and the lamp is turn off.

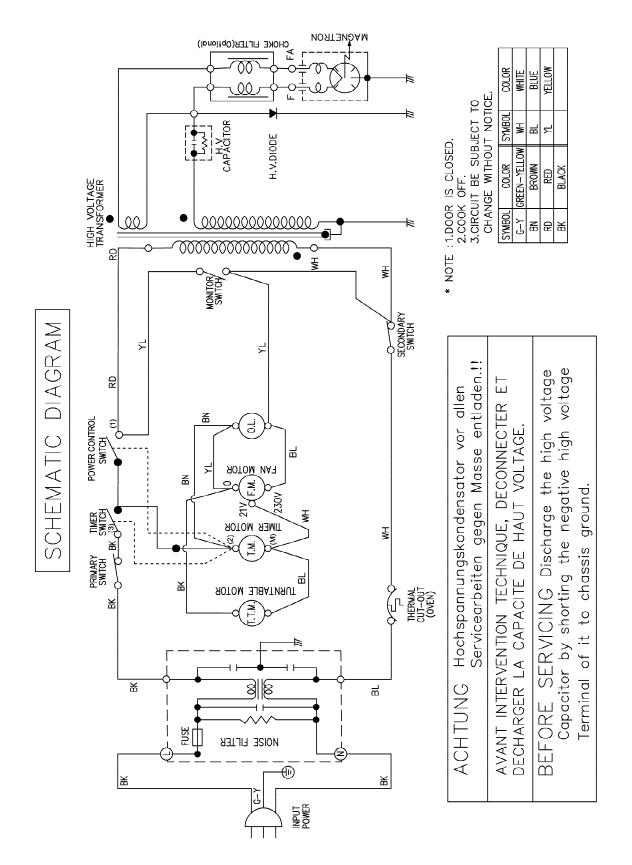
NOTE:

- Each number represents minutes. To ensure accurate timing, it is advisable to turn the timer knob slightly passed the desired cooking time and then back to the proposed setting.
- Press the door opener to check the cooking condition during oven operation. Opening the door during oven operation automatically turns off the oven and stops the timer. If cooking is to continue, close the door. Cooking will be resumed until the full cooking time has elapsed.

SCHEMATIC DIAGRAM (I) *Check the Rating Model No.



SCHEMATIC DIAGRAM (II) *Check the Rating Model No. (ADD Noise filter)

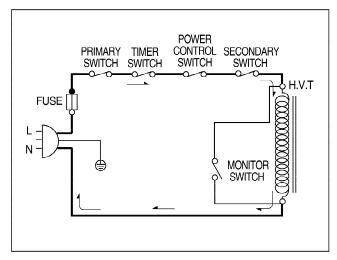


CIRCUIT DESCRIPTION

- As the door is closed, the contact of MONITOR SWITCH opens. This switch creates the short circuit to blow fuse during operation under abnormal condition. (ie, should the contacts of primary and secondary switch fail to open the circuit)
- The latches are secured by latch board. The oven light turns on while the oven is in operation.

WHEN MICROWAVE POWER LEVEL AND COOKING TIME SET

- The contacts of the timer switch changes to ON position when the timer knob is rotated.
 (While power control knob is set at "Full Power")
- The contacts of primary and secondary switch close the circuit.
- Input Volts AC.is applied to the high voltage transformer through power control switch as shown by the solid line.



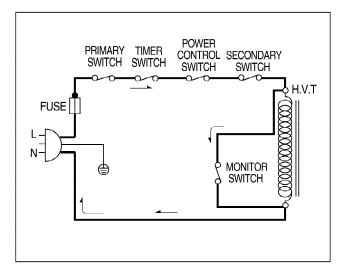
- •Turntable rotates.
- The fan motor rotates and cools the magnetron by blowing the air (coming from the intake holes on the baseplate)over the magnetron.
- The air is also directed into the oven to exhaust the vapor in the oven through the upper plate.
- · Timer starts rotating.

• 3.2 volts AC is generated from the filament winding of the high voltage transformer. This 3.2 volts is applied to the magnetron to heat the magnetron filament through two noise preventing choke coils.

A high voltage of approximately 2100 volts AC is generated in the secondary of the high voltage transformer which is increased by the action of the diode and charging of the high voltage capacitor. The negative DC voltage is then applied to the filament of the magnetron.

WHEN THE DOOR IS OPENED DURING COOKING

- Both primary switch and secondary switch open to cut off the primary winding voltage to the high voltage transformer to stop microwave oscillation.
- Timer, turntable and fan motor stop.
- As the door is opened, if the contact of primary switch fail to open, the fuse opens due to the large current surge caused by the monitor switch activation which in turn stops magnetron, oscillation.



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
- Cross head screwdriver
- Wrench (size 5mm)
- Nutdriver (size 5mm)
- Adjustable wrench
- Soldering iron
- Solder
- Vinyl insulation tape
- Polishing cloth

NECESSARY MEASURING INSTRUMENTS

- TESTER (VOLTS-DC, AC, Ohmmeter)
- Microwave survey meter
 - Holaday HI-1500

HI-1501

- Narda 8100 8200

. 02

- Inch scale
- 600 cc non conductive material beaker(glass or plastic), inside diameter: approx. 8.5 cm(3¹/2 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)

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/cm² 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 and CDRH (Center for Devices and Radiological Health) immediately.

NOTE: Adress on CDRH

Office of Compliance (HFZ-312) Center for Devices and Radiological Health 1390, Piccard Drive, Rockville, MD 20850

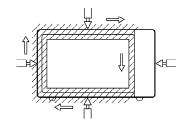
- The service personnel should check all surface and vent openings for microwave leakage test.
- Check for microwave leakage after every servicing.
 The power density of the microwave radiation leakage
 emitted by the microwave oven should not exceed
 4 mW/cm². Always start measuring of an unknown field
 to assure safety for operating personnel from radiation
 leakage.

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 2,450 MHz and use it following the manufacturer's recommended test procedure to assure correct tesult.
- 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

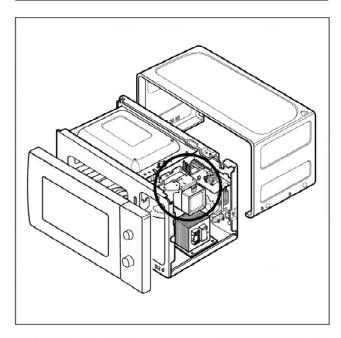
Probe scanning speed Less than 2.5 cm/sec (1 in/sec)



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 Fig. below)
 - Around the magnetron
 - 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.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.sq.

NOTES WHEN MEASURING

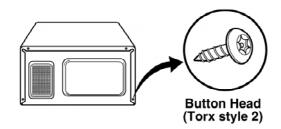
- Do not exceed meter full scale deflection.
- The test probe must be removed no faster than 1 inch/sec(2.5 cm/sec) along the shaded area, otherwise a false reading may result.
- The test probe must be held with the grip portion of the handle
 - A false reading may result if the operator's hand is between 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 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.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.

SPECIAL TIP

• This oven used the button head screws.



 When you remove the screws, use the tamper-resistant Torx driver having a pin-in-head.

MEASUREMENT OF MICROWAVE POWER OUTPUT

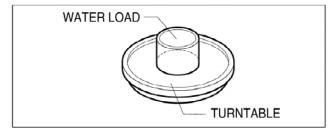
- Microwave power output measurement is made with the microwave oven supplied at its rated voltage and operated at its maximum microwave power setting with a load of (1000±5) g of potable water.
- The water is contained in a cylindrical borosilicate glass vessel having a maximum material thickness of 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 Δ T of $(10\pm2)^\circ$ is measured, where T is the time in seconds and Δ 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°.

 The microwave power output P in watts is calculated from the following formula:

$$P = \frac{4187 \times (\Delta T)}{T}$$

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.



DISASSEMBLY AND ADJUSTMENT

A. OUTER CASE REMOVAL

- 1) Disconnect power supply cord from the outlet.
- Remove the screws from the rear of the case.
 The outer case must be moved backward to be lifted off.

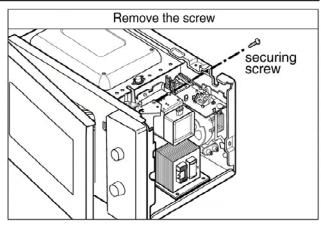
B. POWER SUPPLY CORD

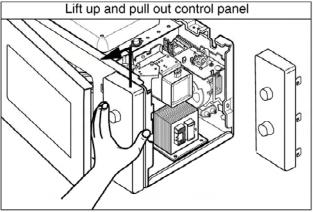
- 1) Remove the outer case.
- Disconnect two terminals, and remove one screw of the earth terminal.

C. CONTROL PANEL ASSEMBLY

- 1) Open the door.
- 2) Remove the screws for securing the control panel.
- 3) Disconnect the leadwire from motor timer.
- Lift up and pull out control panel assembly carefully from the cavity.

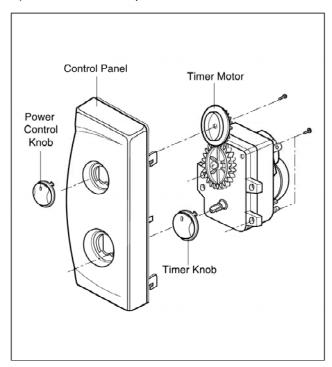
CAUTION: DISCHARGE THE HIGH VOLTAGE CAPACITOR BEFORE SERVICING (Refer to page 2-1)





D. TIMER MOTOR REMOVAL

- Remove the control panel assembly from the cavity. (Refer to control panel assembly removal on previous page.)
- Remove screws which hold the timer motor to the control panel.
- 3) Removed the timer knob.
- 4) Remove the door open button.



E. DOOR GROSS ASSEMBLY REMOVAL

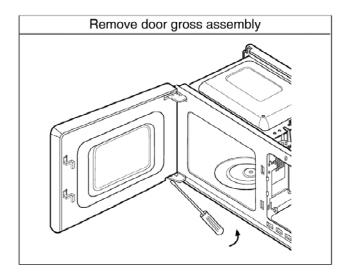
- 1) Open the door.
- Remove the choke cover very carefully with a flat-blade screwdriver.

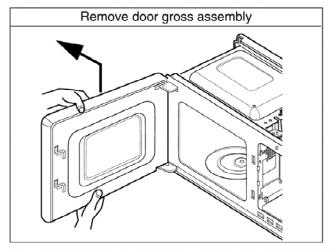
CAUTION: Be careful not to damage door seal plate by screwdriver.

3) Lift up and push the door.

NOTE

- After replacing the door, be sure to check that the primary switch, monitor switch and secondary switch operates normally.
- After replacing the door, check for microwave energy leakage with a survey meter. Microwave energy must be below the limit of 4 mW/cm². (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.





F. HIGH VOLTAGE TRANSFORMER REMOVAL

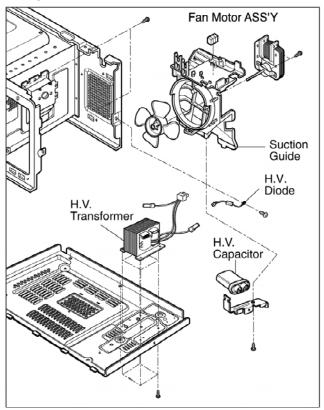
- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from magnetron, high voltage transformer, and capacitor.
- 3) Remove the screw holding the high voltage transformer to the baseplate.

G. FAN MOTOR ASSEMBLY REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from fan motor and high voltage capacitor.
- Remove the two screws holding the the suction guide assembly to the oven cavity and remove the high voltage diode earth screw.
- Remove the two screws holding the fan motor assembly to the suction guide assembly.

H. HIGH VOLTAGE CAPACITOR AND DIODE REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from fan motor, and high voltage capacitor.
- Remove the screw holding the suction guide assembly to the oven cavity and remove the high voltage diode earth screw.
- 4) Remove the screw holding the high voltage capacitor bracket.



I. AIR DUCT ASSEMBLY REMOVAL

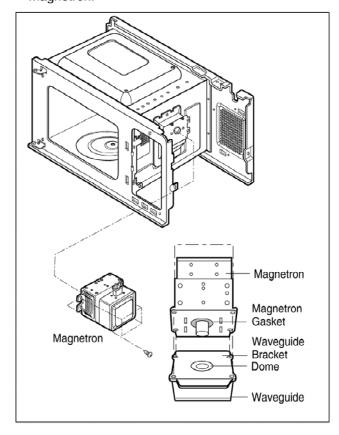
- 1) Disconnect the leadwire from lamp.
- 2) Remove the mounting screw to Latch Board.

J. MAGNETRON REMOVAL

- Disconnect the leadwire from the high voltage transformer.
- Carefully remove the mounting screws holding the magnetron to the waveguide.
- Remove the magnetron assembly until the tube is clear from the waveguide.

NOTE

- When removing the magnetron, make sure its dome does not hit any adjacent parts, or it may be damaged.
- 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.



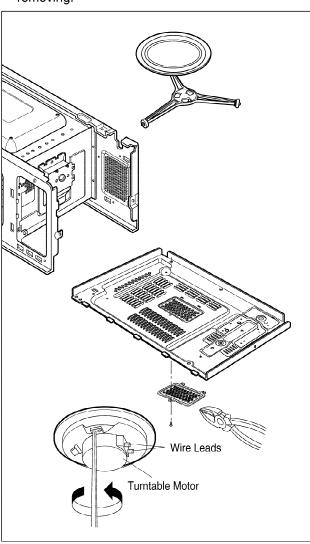
K. REMOVING THE TURNTABLE MOTOR

- 1) Remove the turntable.
- 2) Remove the turntable shaft VERY CAREFULLY with a slotted screwdriver.
- 3) Lay the unit down on its back.
- 4) 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 assembly.
- 7) After repairing 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.

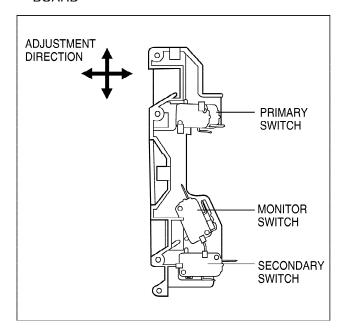


L. INTERLOCK SYSTEM

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



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.

MEASUREMENT OF MICROWAVE POWER OUTPUT

WARNING: FOR CONTINUED PROTECTION AGAINST EXCESSIVE RADIATION EMISSION, REPLACE ONLY WITH IDENTICAL REPLACEMENT PARTS. ALL THESE SWITCHES MUST BE REPLACED AT THE SAME TIME.

TYPE NO. SZM-V 16-FA-63 OR VP-533A-OF OR V-5230Q FOR PRIMARY SWITCH TYPE NO. SZM-V 16-FA-62 OR VP-532A-OF OR V-5220Q FOR MONITOR SWITCH

TYPE NO. SZM-V 16-FA-63 OR VP-533A-OF OR V-5230Q FOR SECONDARY SWITCH

A. 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.

B. 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.

C. 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		
SWITCHES (Wire leads removed)	Check for continuity of the switch with an Ohm-meter		Door open	Door closed
	Primary Switch	COM NO	800	°C°
	Monitor Switch	NC COM	°°C°	°8
	Secondary Switch	COM NO	_∞ •	8000
	NOTE : Afte	er checking for the continuity of switchen nected correctly.	es, make sure that t	hey 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 2-1)
- 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)	PRIMARY TERMINAL 1. Measure the resistance. (Ohm-meter scale: Rx1 and Rx100) • Primary winding • Secondary winding • Filament winding 2. Measure the resistance. (Ohm-meter scale: Rx1000) • Primary winding • Filament winding 2. Measure the resistance. (Ohm-meter scale: Rx1000) • Primary winding to ground • Filament winding to ground	Approx.: 0.3 ~ 0.8 ohm Approx.: 100 ~ 200 ohm Less than: 1 ohm Normal: Infinite Normal: Infinite
MAGNETRON (Wire leads removed)	1. Measure the resistance. (Ohm-meter scale: Rx1) • Filament terminal 2. Measure the resistance. (Ohm-meter scale: Rx1000) • Filament to chassis	Normal: Less than 1 ohm Normal: Infinite

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

COMPONENTS	TEST PROCEDURE		RESUL	TS
RELAY 2	Check for continuity of relay 2 with an ohm-meter. (Remove wire leads from relay 2 and operate the unit.) Relay 1 Relay 2	POWER LEVEL 1 2 3 4 5 6 7 8 9 10	4 sec 6 sec 8 sec 10 sec 12 sec 14 sec 16 sec 18 sec 20 sec 22 sec	18 sec 16 sec 14 sec 12 sec 10 sec 8 sec 6 sec 4 sec 2 sec 0 sec
FAN MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 100)	Normal: A~B: Approx. 65 ~ 80 ohm B~C: Approx. 10 ~ 30 ohm A~C: Approx. 85 ~ 105 ohm Abnormal: Infinite or several ohm.		
TURNTABLE MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1000)	Abnormal:	pprox. 100 ~ Infinite or se ohms.	

NOTE: • A MICROWAVE LEAKAGE TEST MUST ALWAYS BE PERFORMED WHEN THE UNIT IS SERVICED FOR ANY REASON.

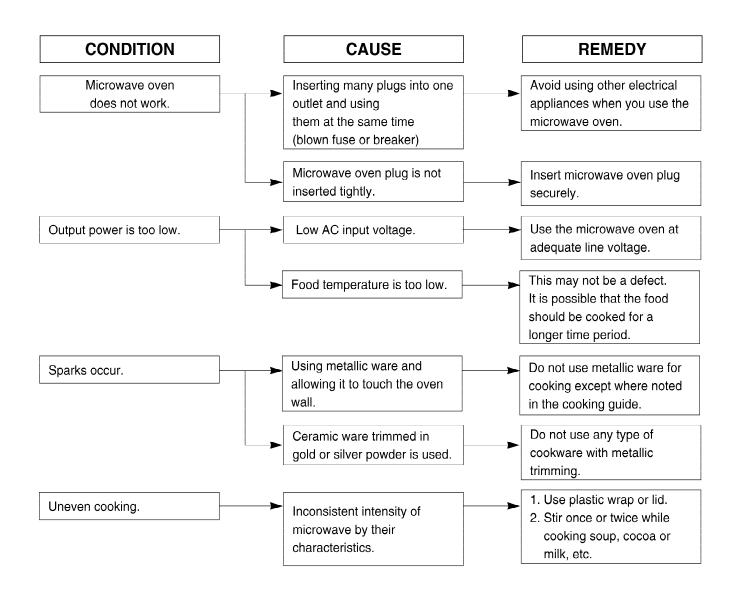
- MAKE SURE THE WIRE LEADS ARE IN THE CORRECT POSITION.
- WHEN REMOVING THE WIRE LEADS FROM THE PARTS, BE SURE TO GRASP THE CONNECTOR, NOT THE WIRES.

TROUBLE SHOOTING

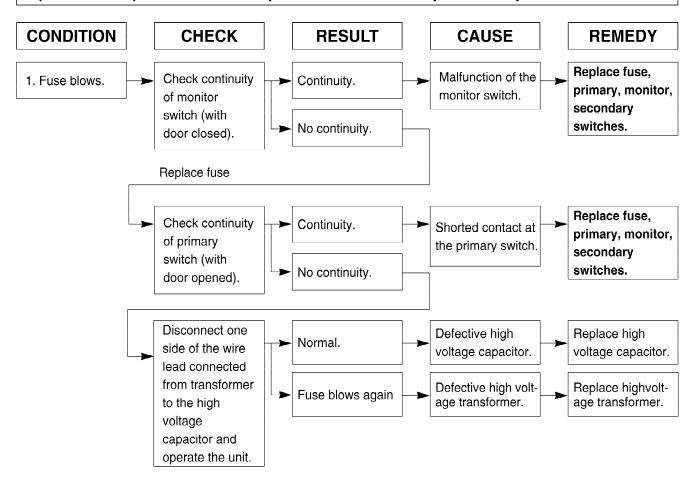
WHEN YOU GET A COMPLAINT FROM YOUR CUSTOMER, EVALUATE THE COMPLAINT CAREFULLY. IF THE FOLLOWING SYMPTOMS APPLY, PLEASE INSTRUCT THE CUSTOMER IN THE PROPER USE OF THE MICROWAVE OVEN. THIS CAN ELIMINATE AN UNNECESSARY SERVICE CALL.

CAUTIONS

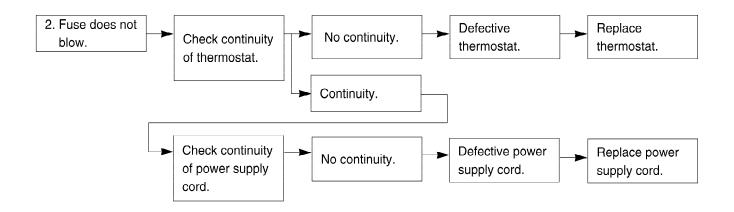
- 1. Check grounding before checking for trouble.
- 2. Be careful of the high voltage circuit.
- 3. Discharge the high voltage capacitor. (See page 2-1)
- 4. When checking the continuity of the switches or of the high voltage transformer, disconnect one lead wire from these parts and then check continuity with the AC plug removed. To do otherwise may result in a false reading or damage to your meter.



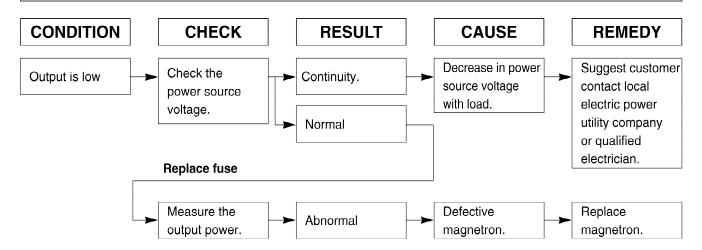
(TROUBLE 1) Oven does not operate at all and no input is accepted.



NOTE: All these switches must be replaced at the same time. Refer to page 5-6, 5-7

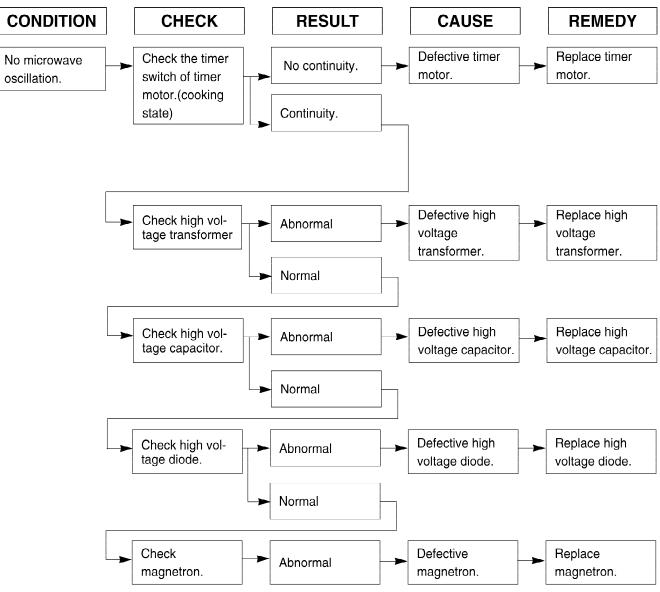


(TROUBLE 2) Oven seems to be operating but little heat is produced in oven load.



NOTE : Simple test of power output-conducted by heating one liter water for one min. if available. Minimum 8.5°C temperature rise is normal condition.

(TROUBLE 3) No microwave oscillation even though oven lamp and fan motor run.

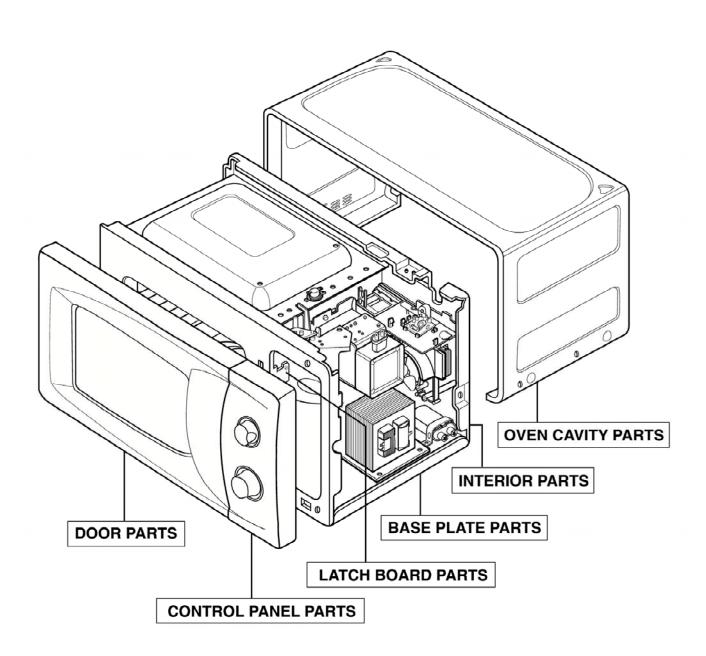


NOTE: • Make sure the wire leads are in the correct position.

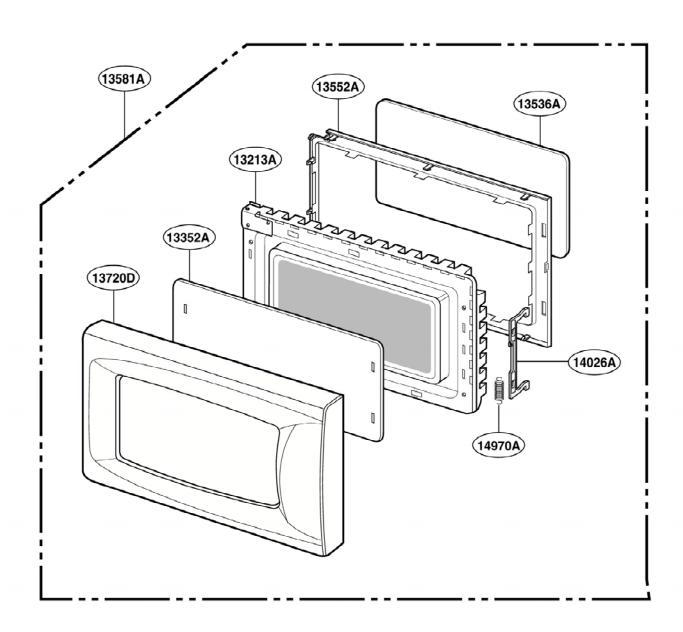
- When removing the wire leads from the parts, be sure to grasp the connector, not the wires.
- When removing the magnetron, be sure to install the magnetron gasket in the correct position and in good condition.

EXPLODED VIEW

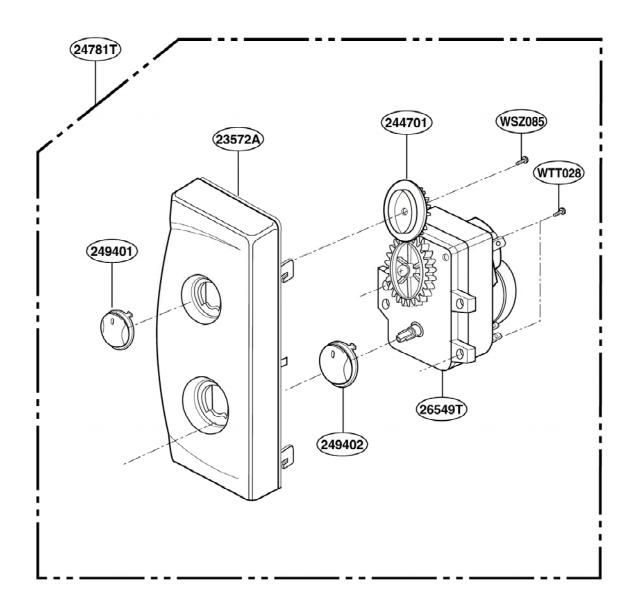
INTRODUCTION



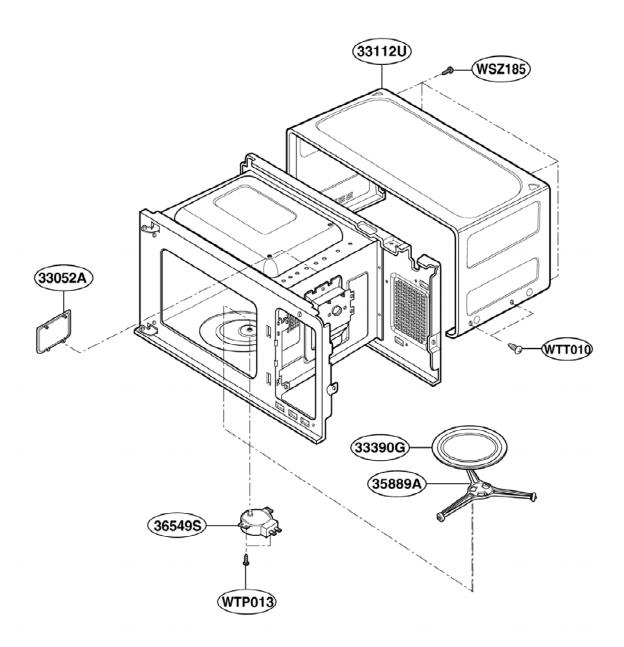
DOOR PARTS



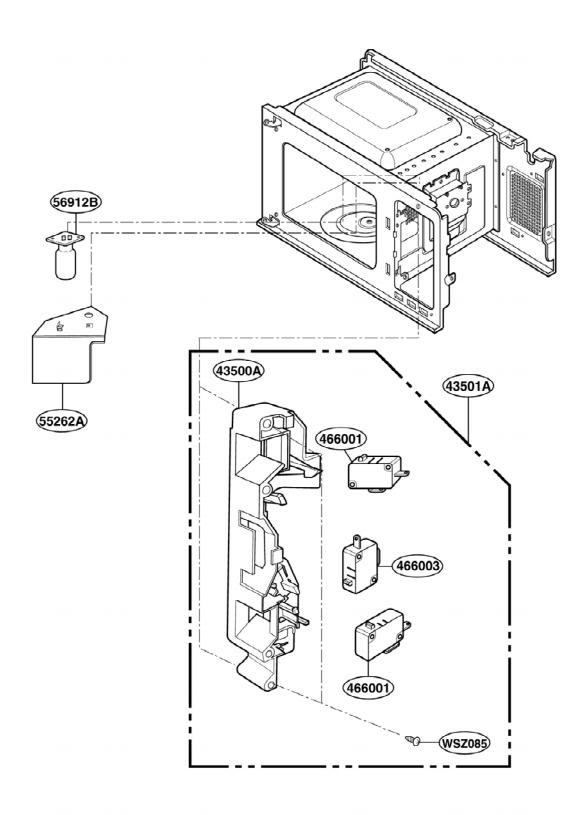
CONTROLLER PARTS



OVEN CAVITY PARTS



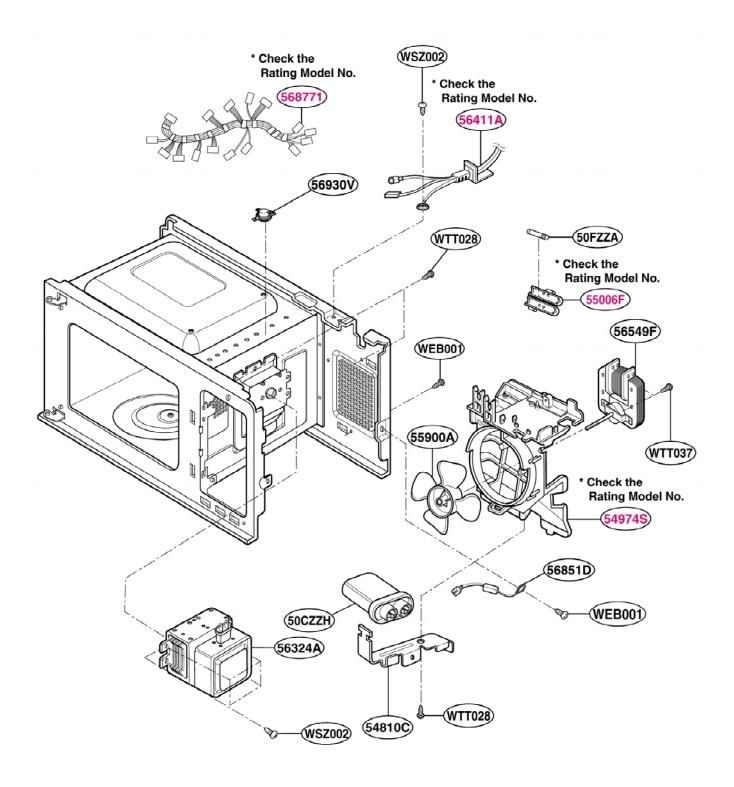
LATCH BOARD PARTS



INTERIOR PARTS (I)

Model: MAK7553W

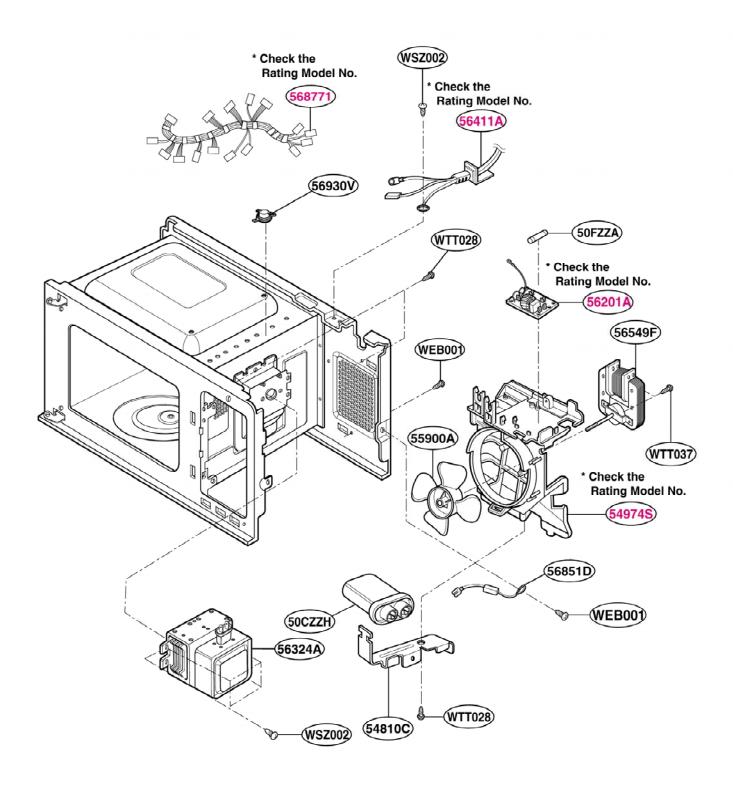
Check the rating label of **Model** and order SVC parts according to the **Model No**.



INTERIOR PARTS (II)

Model: MAK7553W / 01

Check the rating label of **Model** and order SVC parts according to the **Model No.**



BASE PLATE PARTS

