

Service Manual

Microwave Oven

Model No. NN-ST34HMYTE
 Model No. NN-ST34HMYPQ
 Model No. NN-ST34HMRPH
 Model No. NN-ST34HWQPQ



23L

Silver / White


Singapore (Re-Export)

Singapore, Panama, Australia

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Specifications

	NN-ST34HMYTE	NN-ST34HMRPH	NN-ST34HMYPQ / ST34HWQPQ
Power Requirement	220 Volts AC 50 Hz 1270 Watts (5.9 A) Single phase, 3 wire grounded	120 Volts AC 60 Hz 1,270 Watts (10.4 A) Single phase, 3 wire grounded	240 Volts AC 50Hz 1270 Watts (5.5 A) Single phase, 3 wire grounded
Power Output	800 Watts full microwave power (IEC60705)		
Microwave Frequency	2,450 MHz		
Magnetron	2M219J		
Timer	0 ~ 99 min. 90 sec.		
Outside Dimensions	485 (W) x 287 (H) x 400 (D) mm		
Cavity Dimensions	315(W) x 227(H) x 349 (D) mm		
Net Weight	12.7kg (approx.)		
Shipping weight	14.7 kg (approx.)		
Specifications subject to change without notice.			

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WARNING

This product should be serviced only by trained qualified personnel.

This service manual covers products for following markets.

When troubleshooting or replacing parts, please refer to the country identifications shown below for your applicable product specification.

YPQ : For Singapore QPQ : For Australia YTE : For Singapore (Re-export) PRH : For Panama

CAUTION

About lead free solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution: ● Pb free solder has a higher melting point than standard solder; Typically the melting point is 30 - 40°C higher.

Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to $370 \pm 10^{\circ}\text{C}$.

● Pb free solder will tend to splash when heated too high (about 600°C)

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

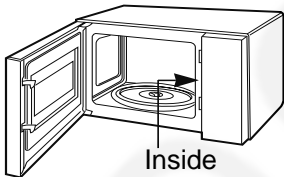
MICROWAVE RADIATION

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

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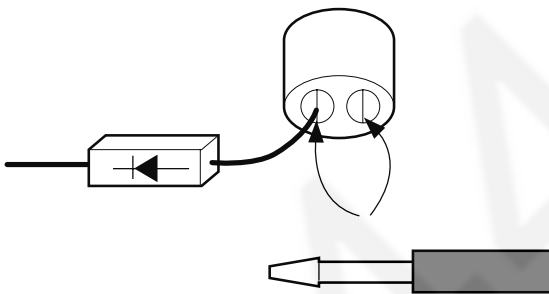
POWER LEVEL & ACCESSORIES

ITEM	DESCRIPTION
Control Complement	<p>Microwave Power for Variable Cooking</p> <p>Power level</p> <p><i>High</i> 800 Watts</p> <p><i>Defrost **</i> 240 Watts</p> <p><i>Medium</i> 560 Watts</p> <p><i>Low</i> 520 Watts</p> <p><i>Warm</i> 80 Watts</p>
Rating Label Location	 <p>Inside</p>
Accessories	<p>Instruction manual</p> <p>Glass Tray</p> <p>Roller Ring</p>
<p>This microwave oven is designed for household use only.</p> <p>It is not recommended for commercial purposes.</p>	

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.

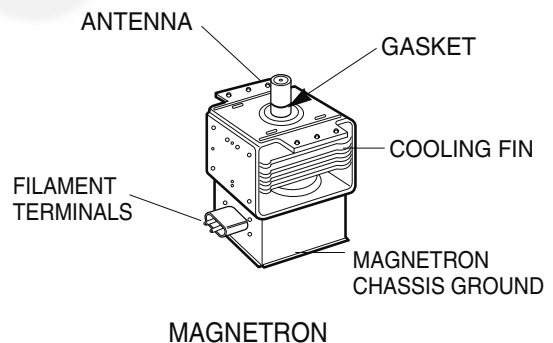


- Remove your watches whenever working close to or replacing the Magnetron.
- NEVER operate the oven with no load.
- NEVER injure the door seal and front plate of the oven cavity.
- NEVER put iron tools on the magnetron.
- NEVER put anything into the latch hole and the interlock switches area.

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.**



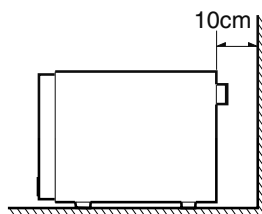
THE OVEN IS TO BE SERVICED ONLY BY PROPERLY QUALIFIED SERVICE PERSONNEL.

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. 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.
4. The oven should not be 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 an 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.



EARTHING INSTRUCTIONS

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

The wires in this mains lead are colored in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	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.

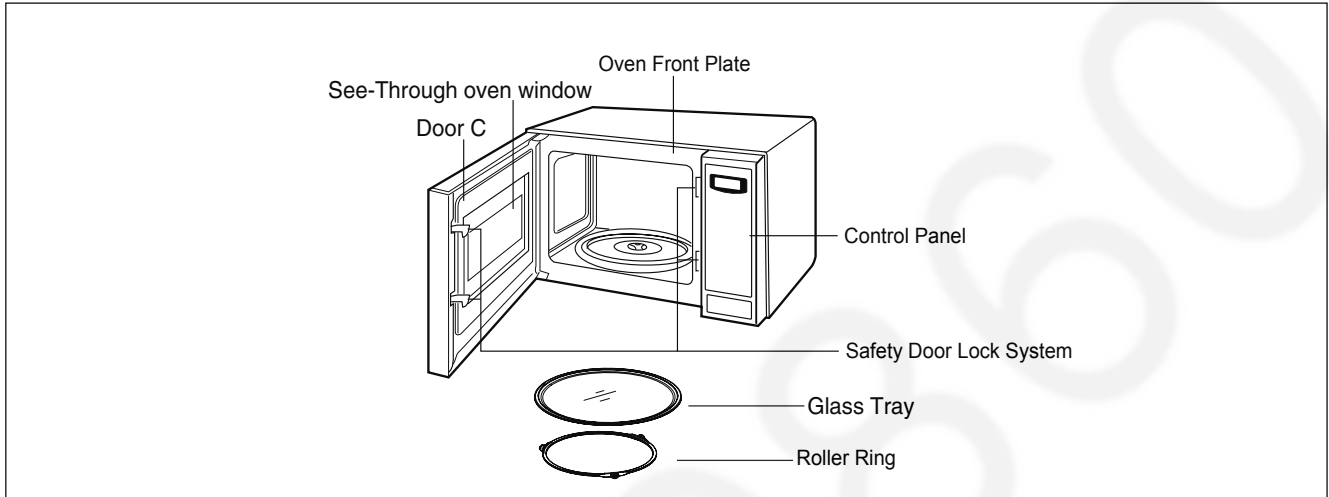
The wire which is colored **green-and-yellow** must be connected to the terminal in the plug which is marked with the letter **E** or by the **earth symbol** (\perp) or colored **green** or **green-and-yellow**.

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**.

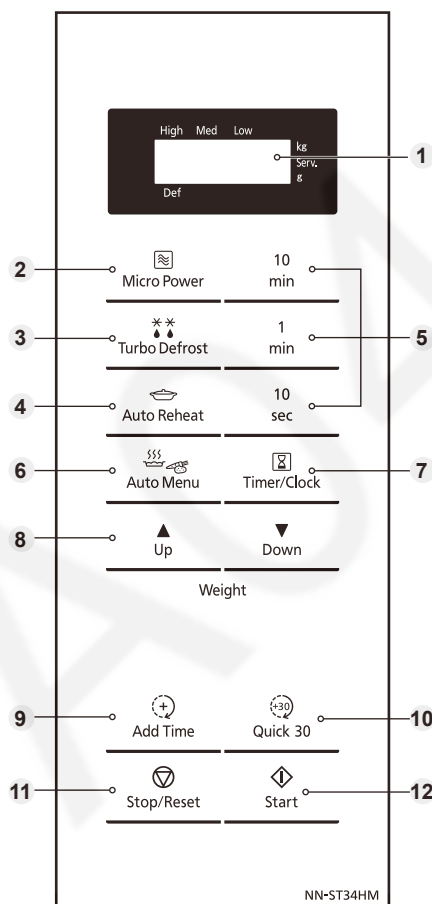
The wire which is colored **brown** must be connected to the terminal in the plug which is marked with the letter **L** or colored **red**.

OPERATING INSTRUCTIONS

FEATURES



CONTROL PANEL



- 1 Display window
- 2 Micro Power pad
- 3 Turbo Defrost pad
- 4 Auto Reheat pad
- 5 Time pads

- 6 Auto Menu pad
- 7 Timer / Clock pad
- 8 Up / Down pads for weight setting

- 9 Add Time pad

- 10 Quick 30 pad

- 11 Stop / Reset pad

Before Cooking

During Cooking

One press temporarily stops the cooking process. Another press cancels all your instructions and a colon or the time of day will appear in the display.

- 12

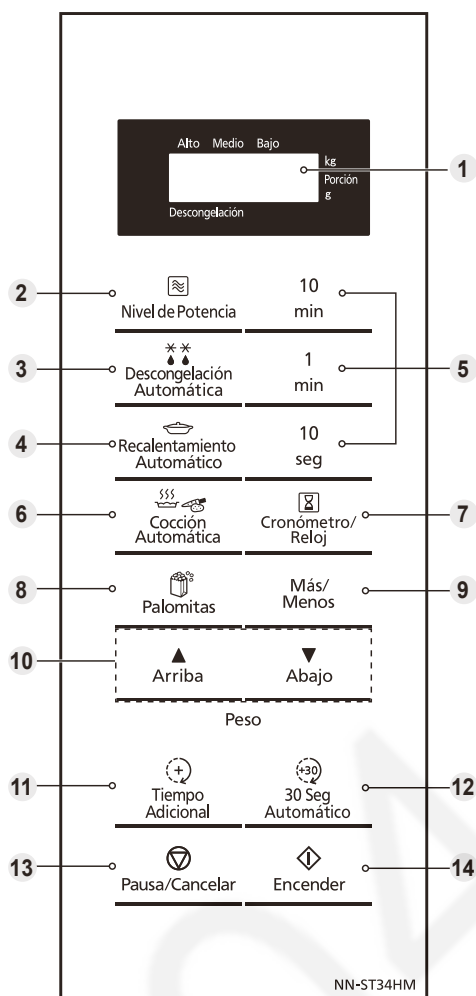
Start pad

One press allows oven to begin operation. If door is opened or Stop/Reset is pressed once during oven operation, Start must be pressed again to restart oven.

④ Beep sound

When a pad is pressed correctly a beep will be heard. If a pad is pressed and no beep is heard, the unit has not or cannot accept the instruction. The oven will beep twice between programmed stages. At the end of any complete programme, the oven will beep 5 times.

CONTROL PANEL *NN-ST34HMRPH only



- 1 Pantalla de visualización
- 2 Almohadilla Nivel de Potencia
- 3 Almohadilla Descongelación Automática
- 4 Almohadilla Recalentamiento Automático

- 5 Almohadillas de Tiempo
- 6 Almohadilla Cocción Automática
- 7 Almohadilla Cronómetro / Reloj
- 8 Almohadilla Palomitas
- 9 Almohadilla Más / Menos

- 10 Almohadillas Arriba / Abajo para ajuste de peso

- 11 Almohadilla Tiempo Adicional

- 12 Almohadilla 30 Seg Automático

- 13 Almohadilla Pausa / Cancelar

Antes de cocinar

Borra las instrucciones si se pulsa una vez.

Durante la cocción

Detiene temporalmente el programa de cocción si se pulsa una vez. Si se pulsa de nuevo, se cancelan todas las instrucciones y se muestran dos puntos o la hora en la pantalla.

- 14 Almohadilla de Encender

Si se pulsa una vez, el horno comienza a funcionar. Si se abre la puerta o si se pulsa el botón Pausa/Cancelar una vez durante el funcionamiento del horno, se debe pulsar Encender de nuevo para reiniciar el horno.

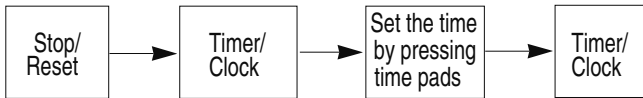
④ Beep sound

When a button is pressed correctly a beep will be heard. If a button is pressed and no beep is heard, the unit has not or cannot accept the instruction. At the end of any complete program, the oven will beep 5 times.

OPERATING SEQUENCE

The following is a description of component functions during oven operation.

1. SETTING THE CLOCK



NOTE: You can set 12 hour clock.

2. CANCEL FUNCTION

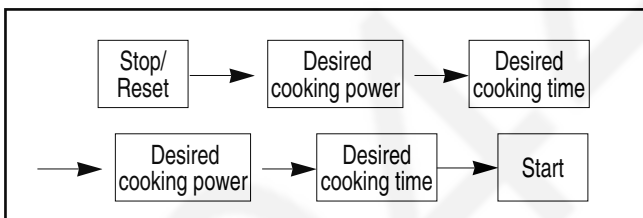
Touch the Stop/Reset pad whenever you need to cancel an entry or a function currently in use. The display will either return to the last item entered or to the clock.

3. MICROWAVE COOKING

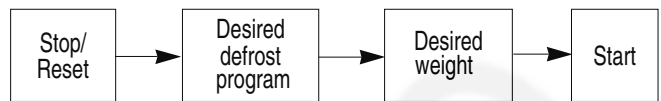


4. MULTI-STAGE MICROWAVE COOKING

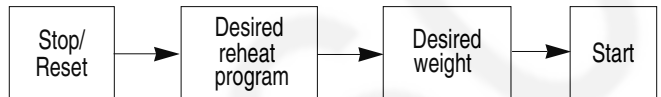
2 STAGE COOKING



5. AUTO WEIGHT DEFROST



6. AUTO WEIGHT REHEAT



7. CHILD LOCK

This oven has a CHILD LOCK feature

• TO SET CHILD LOCK



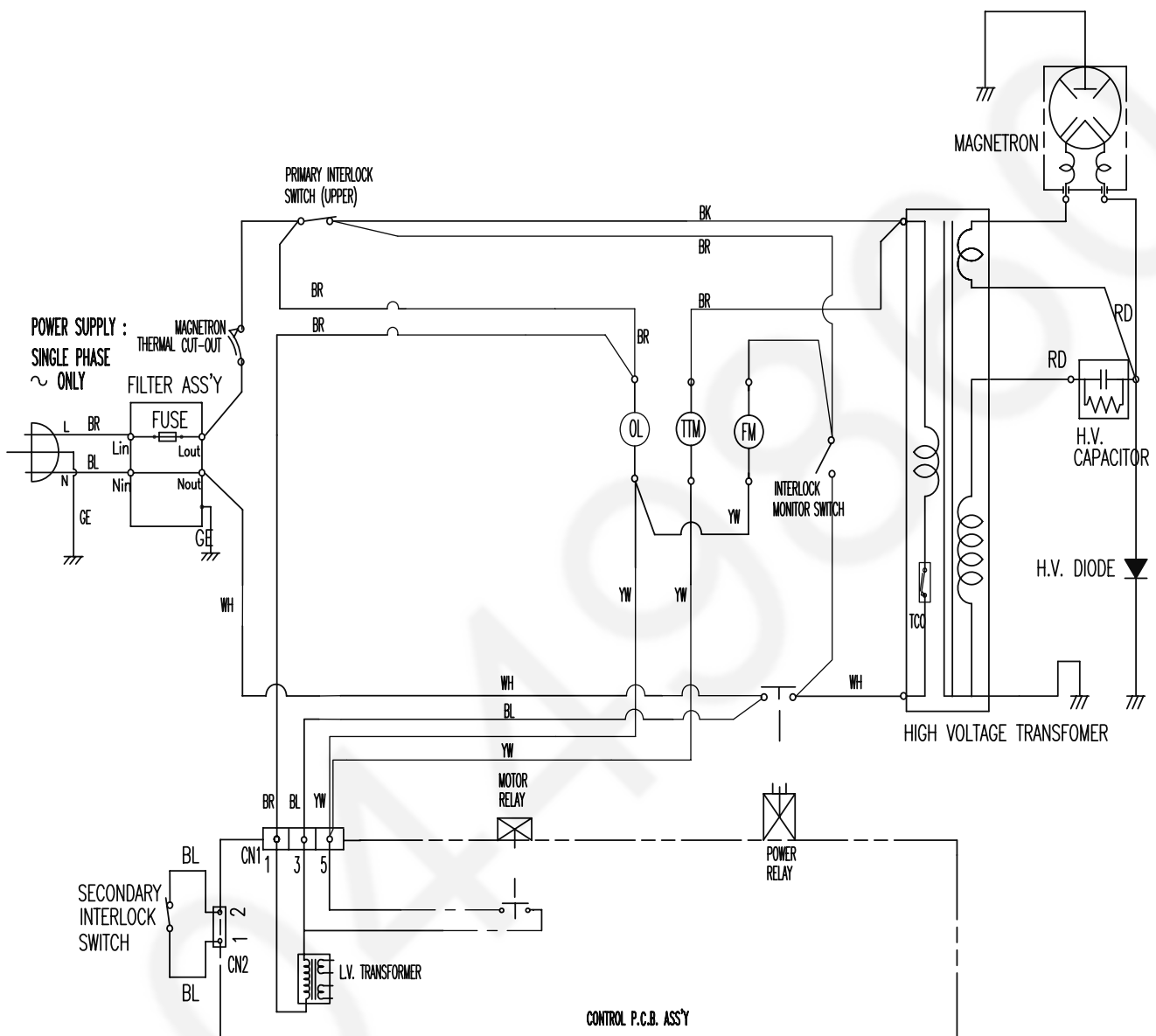
- Press Start 3 times in 10 seconds. The clock will disappear. Actual time will not be lost. "Child" is indicated in the display.

• TO CANCEL CHILD LOCK



- Press Stop/Reset 3 times in 10 seconds. The clock will reappear in the display.

SCHEMATIC DIAGRAM



BEFORE SERVICING Discharge the high voltage Capacitor by shorting the negative high voltage Terminal of it to chassis ground.

SYMBOL	COLOR
GE	GREEN—YELLOW
WH	WHITE
BR	BROWN
BL	BLUE
RD	RED
YW	YELLOW
PK	PINK
GN	GREEN
BK	BLACK

CIRCUIT DESCRIPTION

GENERAL DETAILS

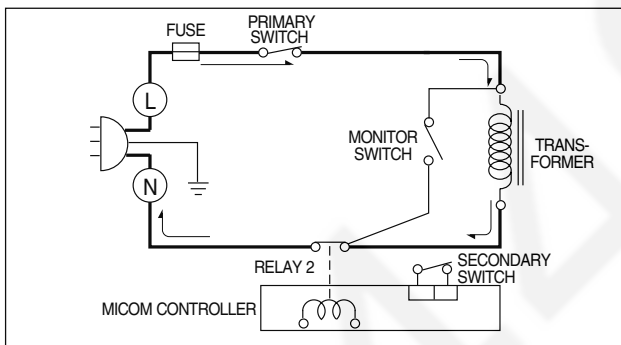
- The low voltage transformer supplies the necessary voltage to the micom controller when power cord is plugged in.
- When the door is closed, the primary switch is ON, the secondary switch is ON, and the monitor switch opens (contact COM and NO).

WHEN SELECTING COOKING POWER LEVEL AND TIME

- The micom controller memorizes the function you set.
- The time you set appears in the display window.
- Each indicator light turns on to indicate that the stage has been set.

WHEN TOUCHING THE START PAD

- The coil of the relay is energized by the micom controller.
- Power input is supplied to the high voltage transformer through the fuse to the primary switch and relay 2.
- Turntable rotates.



- The fan motor rotates and cools the magnetron by blowing the air (coming from the intake on the backplate).
- The air is also directed into the oven to exhaust the vapor in the oven through the left side.
- Cooking time starts counting down.
- 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 high voltage diode and charging of the high voltage capacitor.
- The negative 4000 Volts DC is applied to the filament of the magnetron.

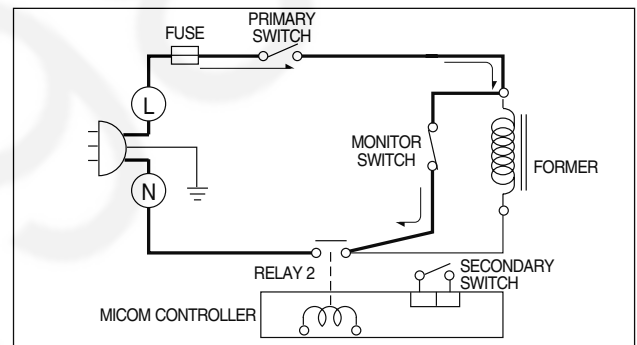
WHEN THE OVEN IS SET AT ANY LEVEL EXCEPT MAXIMUM.

- The micom controller controls the ON-OFF time of relay 2 by the applied signal to vary the average output

power of microwave oven as POWER LEVEL.
(refer to page 1-1)

WHEN THE DOOR IS OPENED DURING COOKING

- Both the primary switch and relay 2 are cut off primary winding voltage of the high voltage transformer.
- ON-OFF of relay 2 is coupled electrically with opening and closing of the secondary switch.
- When the door is opened, the secondary switch is opened and when the door is closed, the secondary switch is closed.
- The cooking time stops counting down.
- Relay stops functioning.
- As the door is opened, if the contact of primary switch and relay 2 and/or secondary switch fails 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
- Phillips screwdriver
- Flat blade 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
- 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.
- 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/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 2450 MHz and use it following the manufacturer's recommended test procedure to assure correct result.
- When measuring the leakage, always use the 2-inch (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

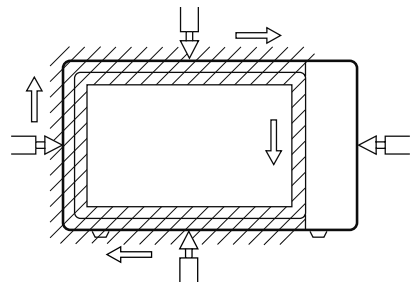
Move probe along shaded area

////////////////////

Probe scanning speed

Less than 2.5 cm/sec

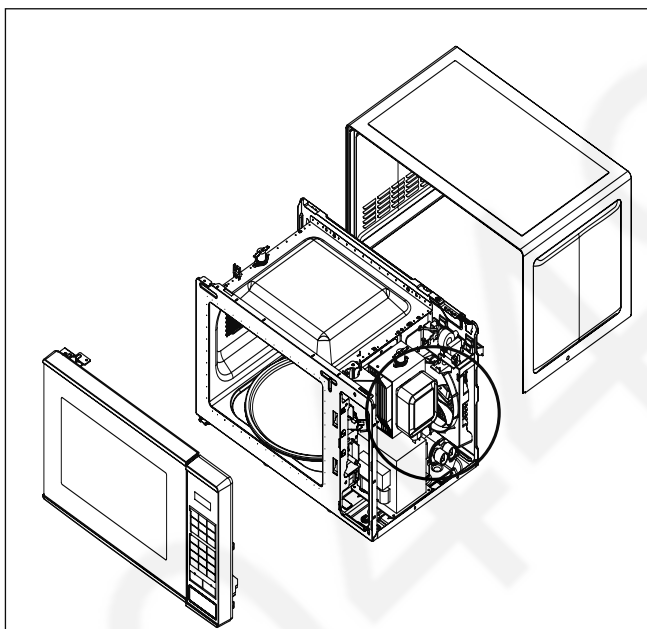
(1in/sec)



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
 - 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 removed less than 5 mW/cm².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/cm².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/cm².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

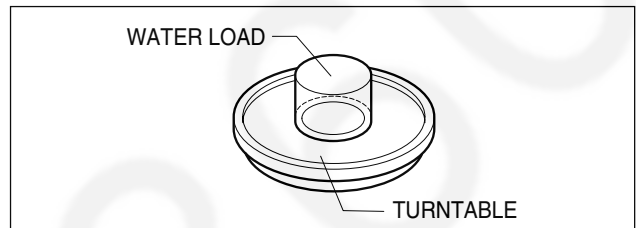
- Microwave power output measurement is made with the microwave oven supplied at its rated voltage and operated at its maximum microwave power setting with a load of (1000±5) g of potable water.
- The water is contained in a cylindrical borosilicate glass vessel having a maximum material thickness of 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 the lowest position and the microwave power switched on.
- The time T for the temperature of the water to rise by a value ΔT of (10±2)°K is measured, where T is the time in seconds and ΔT 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 :

$$P = \frac{4187 \times (\Delta T) + 0.55 \times (T_2 - T_0) \times M}{T}$$

- T₂: Temperature after heating
- T₀: 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 microwave power output, conduct it by heating one litre water for one minute, minimum temperature rise should be 6 °C

DISASSEMBLY AND ADJUSTMENT

A. 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.

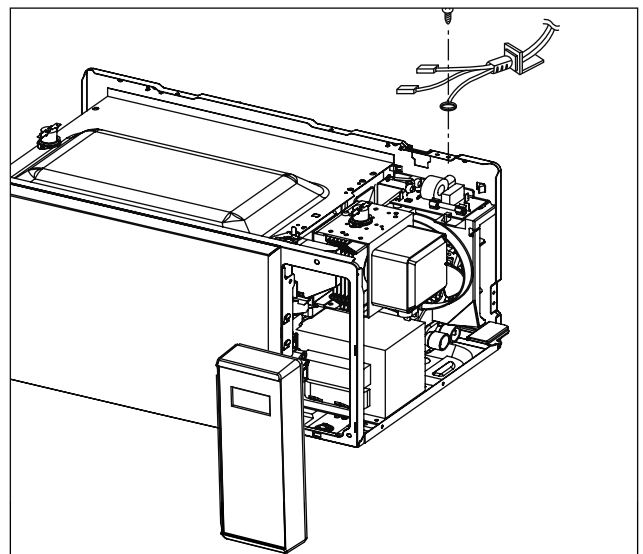
B. POWER SUPPLY CORD

- 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 2-1)

C. CONTROL PANEL ASSEMBLY

- 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.



No need to remove the door. Only control panel should be removed.

D. DOOR ASSEMBLY REMOVAL

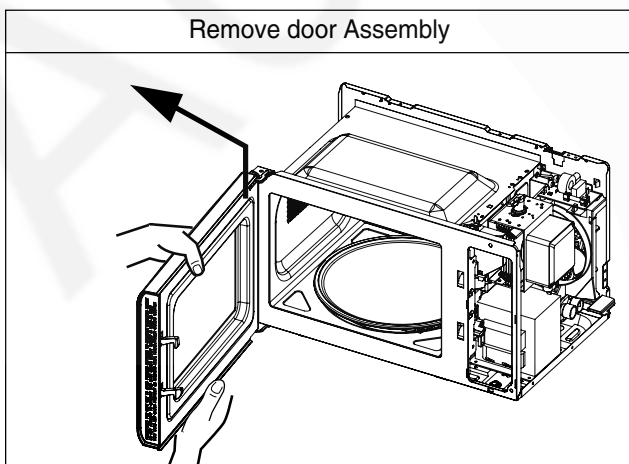
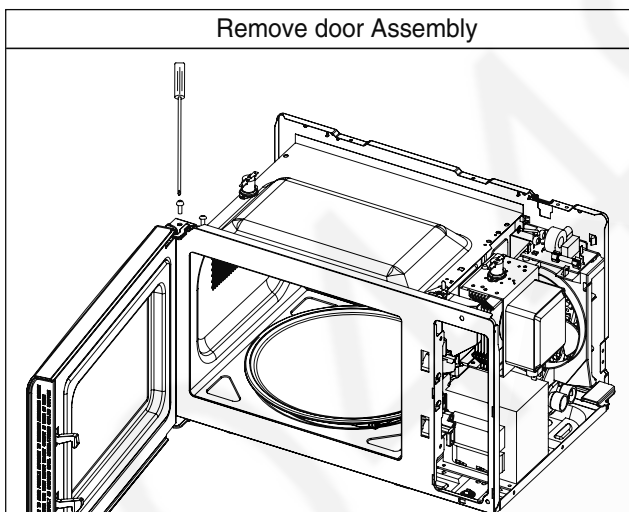
- 1) Open the door.
- 2) Remove two screws holding the Hinge to the Cavity Ass'y.

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/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.



E. HIGH VOLTAGE TRANSFORMER REMOVAL

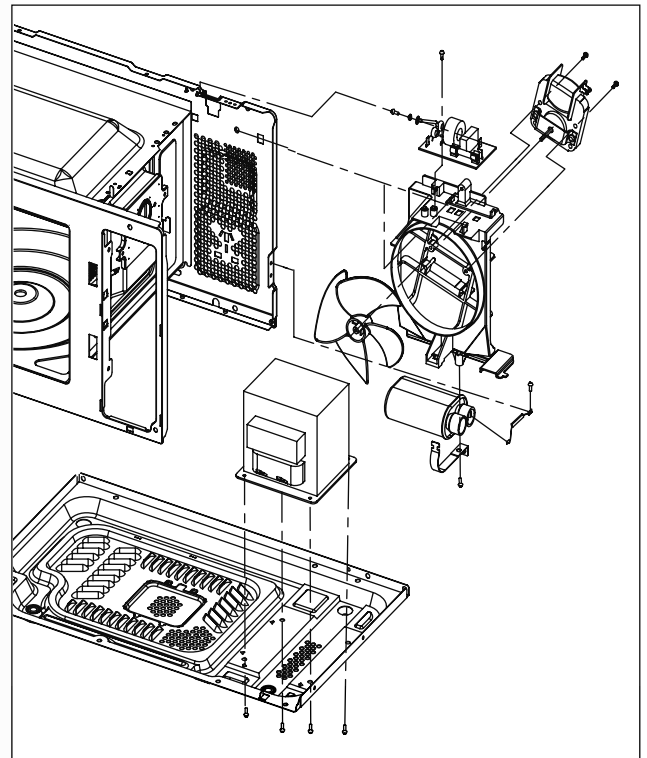
- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from magnetron, high voltage transformer, and capacitor.
- 3) Remove the screw holding the high voltage transformer to the baseplate.

F. ORIFICE ASSEMBLY REMOVAL

- 1) Discharge the high voltage capacitor.
- 2) Disconnect the leadwire from fan motor, noise filter and high voltage capacitor.
- 3) 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.

G. HIGH VOLTAGE CAPACITOR AND DIODE REMOVAL

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



H. 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.

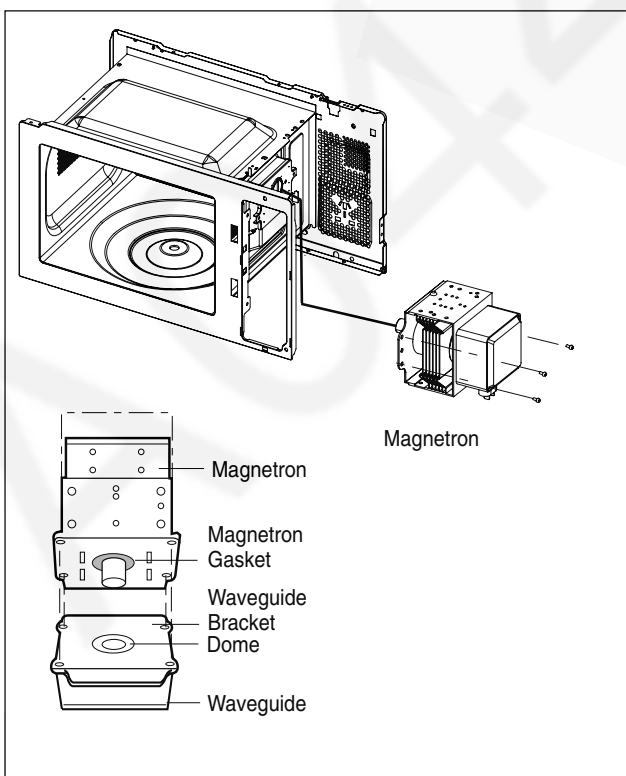
I. MAGNETRON REMOVAL

- 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.

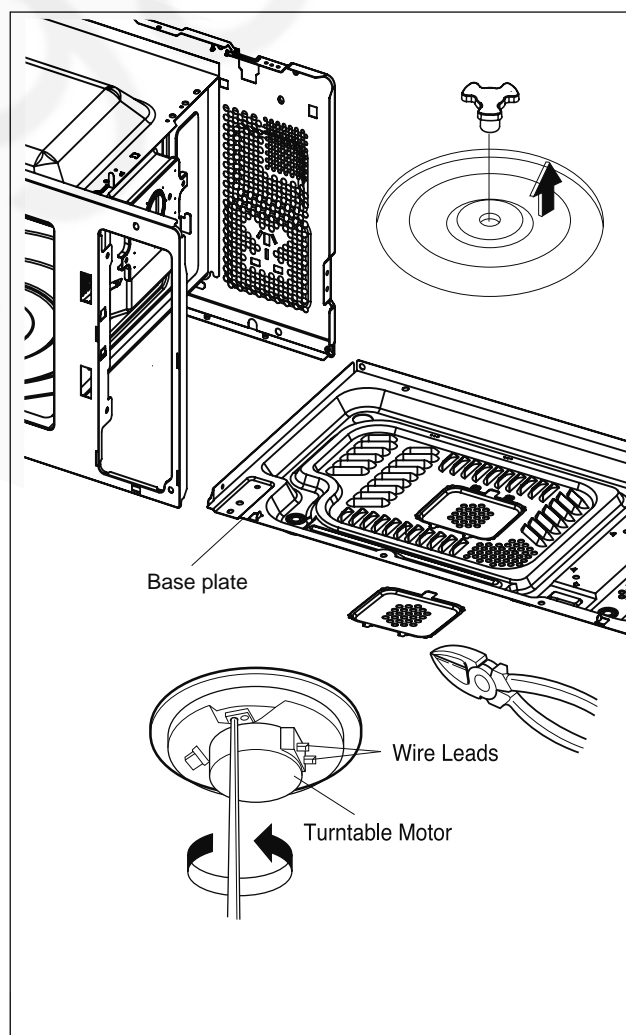


J. REMOVING THE TURNTABLE MOTOR

- 1) Remove the glass tray.
- 2) Remove the pulley shaft **VERY CAREFULLY**
- 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 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.

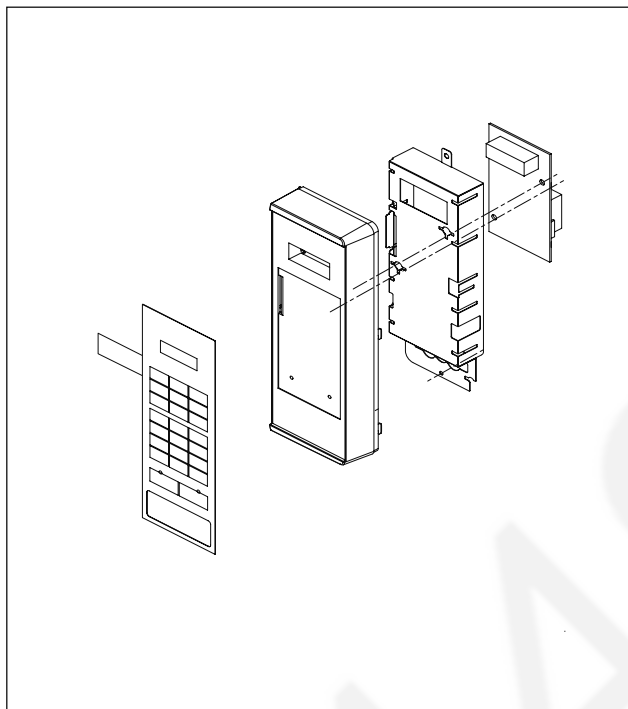
NOTE:

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



K. 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 .

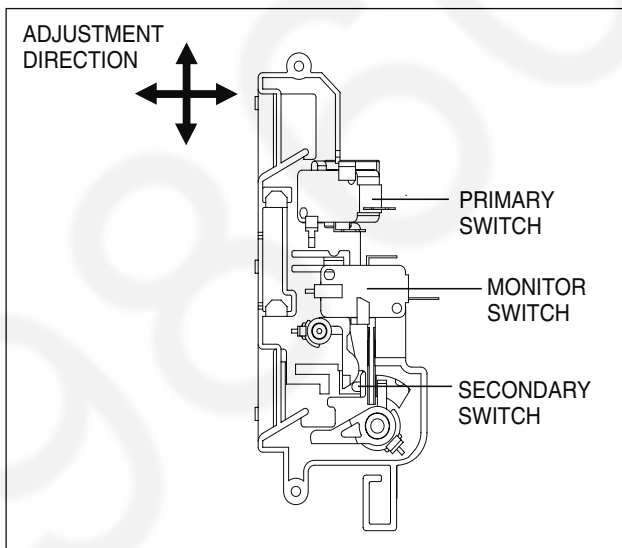


L. INTERLOCK SYSTEM

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.

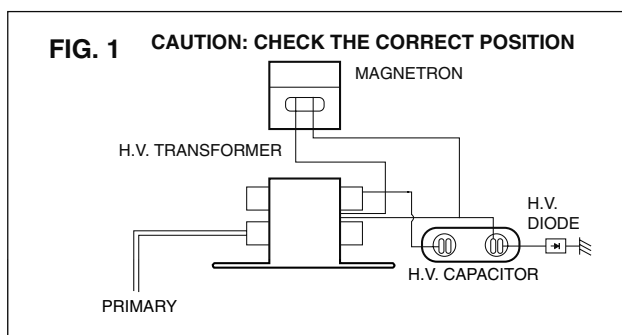
2) MOUNTING OF THE PRIMARY/MONITOR/SECONDARY SWITCHES TO THE LATCH BOARD



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.



INTERLOCK CONTINUITY TEST

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

TYPE NO. KW3A FOR SWITCHS

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 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

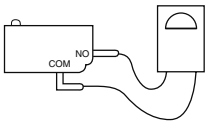


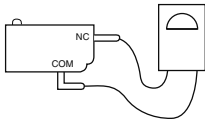


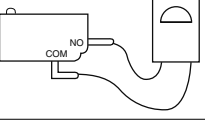


Disconnect the wire lead from the secondary switch.

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.

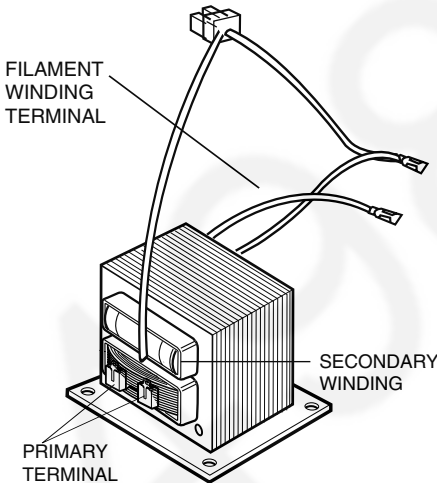
NOTE: After repairing the door or the interlock system, it is necessary to do this continuity test before operating the oven.

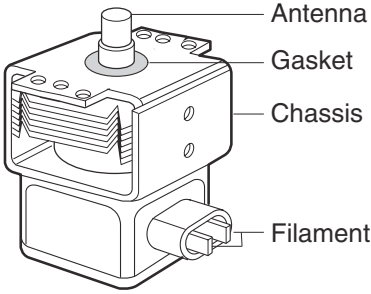
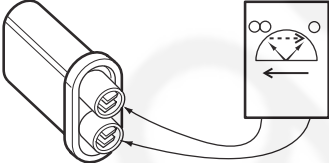
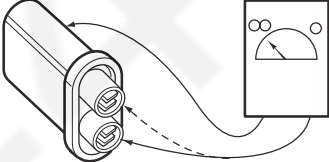
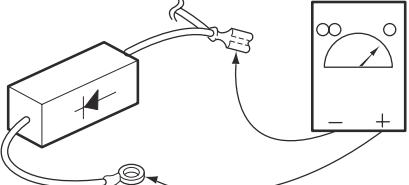
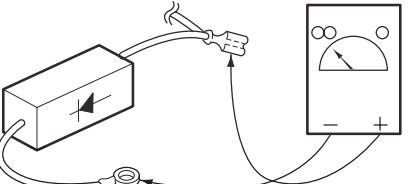
COMPONENTS	TEST PROCEDURE		RESULTS	
SWITCHES (Wire leads removed)	Check for continuity of the switch with an Ohm-meter		Door open	Door closed
	Primary Switch Type No.KW3A			
	Monitor Switch Type No.KW3A			
	Secondary Switch Type No.KW3A			
NOTE : After checking for the continuity of switches, make sure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

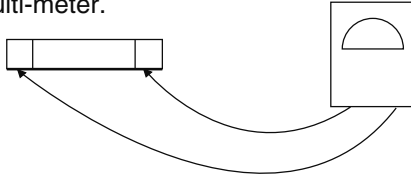
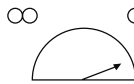

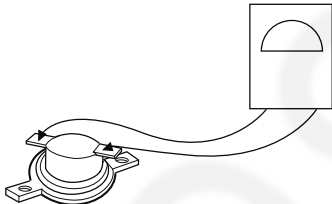


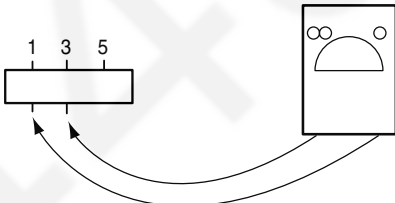


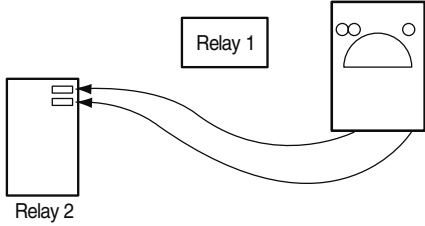


COMPONENT TEST PROCEDURE

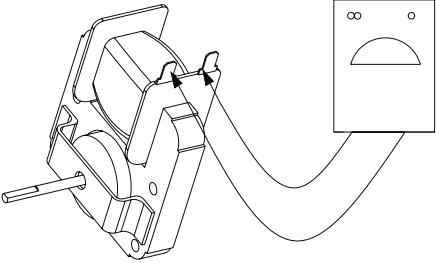
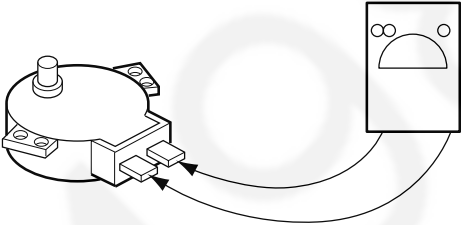
CAUTIONS

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)	 <ol style="list-style-type: none"> 1. Measure the resistance. (Ohm-meter scale: Rx1) <ul style="list-style-type: none"> • Primary winding • Secondary winding • Filament winding 2. Measure the resistance. (Ohm-meter scale: Rx1000) <ul style="list-style-type: none"> • Primary winding to ground • Filament winding to ground 	Approx.: 1.4 ohm Approx.: 90 ohm Less than: 1 ohm Normal: Infinite Normal: Infinite
MAGNETRON (Wire leads removed)	<ol style="list-style-type: none"> 1. Measure the resistance. (Ohm-meter scale: Rx1) <ul style="list-style-type: none"> • Filament terminal 2. Measure the resistance. (Ohm-meter scale: Rx1000) <ul style="list-style-type: none"> • Filament to chassis 	Normal: Less than 1 ohm Normal: Infinite

COMPONENTS	TEST PROCEDURE	RESULTS
	 <p>NOTE: When testing the magnetron, be sure to install the magnetron gasket in the correct position and be sure that the gasket is in good condition.</p>	
HIGH VOLTAGE CAPACITOR	<p>Measure the resistance. (Ohm-meter scale: Rx1000)</p> <ul style="list-style-type: none"> • Terminal to terminal. 	Normal: Momentarily indicates several ohms, and then gradually returns to 10M ohms.
	<p>Measure the resistance. (Ohm-meter scale: Rx1000)</p> <ul style="list-style-type: none"> • Terminal to case. 	Normal: ∞
HIGH VOLTAGE DIODE	<p>Measure the continuity (Forward). (Ohm-meter scale: Rx10000)</p> 	Normal: Continuity. Abnormal: ∞ *
<p>*NOTE : Some inexpensive meters may indicate infinite resistance in both direction.</p>	<p>Measure the continuity (Reverse). (Ohm-meter scale: Rx10000)</p> 	Normal: ∞ Abnormal: Continuity.

COMPONENTS	TEST PROCEDURE	RESULTS	
FUSE	<div>Check for continuity of the fuse with an multi-meter.</div> <div></div>	Normal	Abnormal
		<div></div>	<div></div>
	<div>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.</div> <div>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.</div>		
THERMAL CUT-OUT	<div></div>	Below specified temperature	Above specified temperature
		<div></div>	<div></div>
L.V. Transformer of P.C.B (Refer to schemetic diagram)	<div>Check for P.C.B. connector.</div> <div>*Disconnect the 3 pin connector from P.C.B.</div> <div></div>	Normal	Abnormal
		<div></div>	<div></div>
RELAY 2 OF P.C.B. (Wire leads removed.) Note: Relay Relay 1: Fan motor Turntable motor Oven lamp Relay 2: Microwave	<div></div>	Cooking Start	OFF
		<div></div>	<div></div>

COMPONENTS	TEST PROCEDURE	RESULTS
FAN MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 100) 	Normal: 100~500 Ω Abnormal: ∞ or several Ω
TURNTABLE MOTOR (Wire leads removed)	Measure the resistance. (Ohm-meter scale: R x 1000) 	Normal: Approx. 100~200K Ω Abnormal: ∞ or several Ω
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.

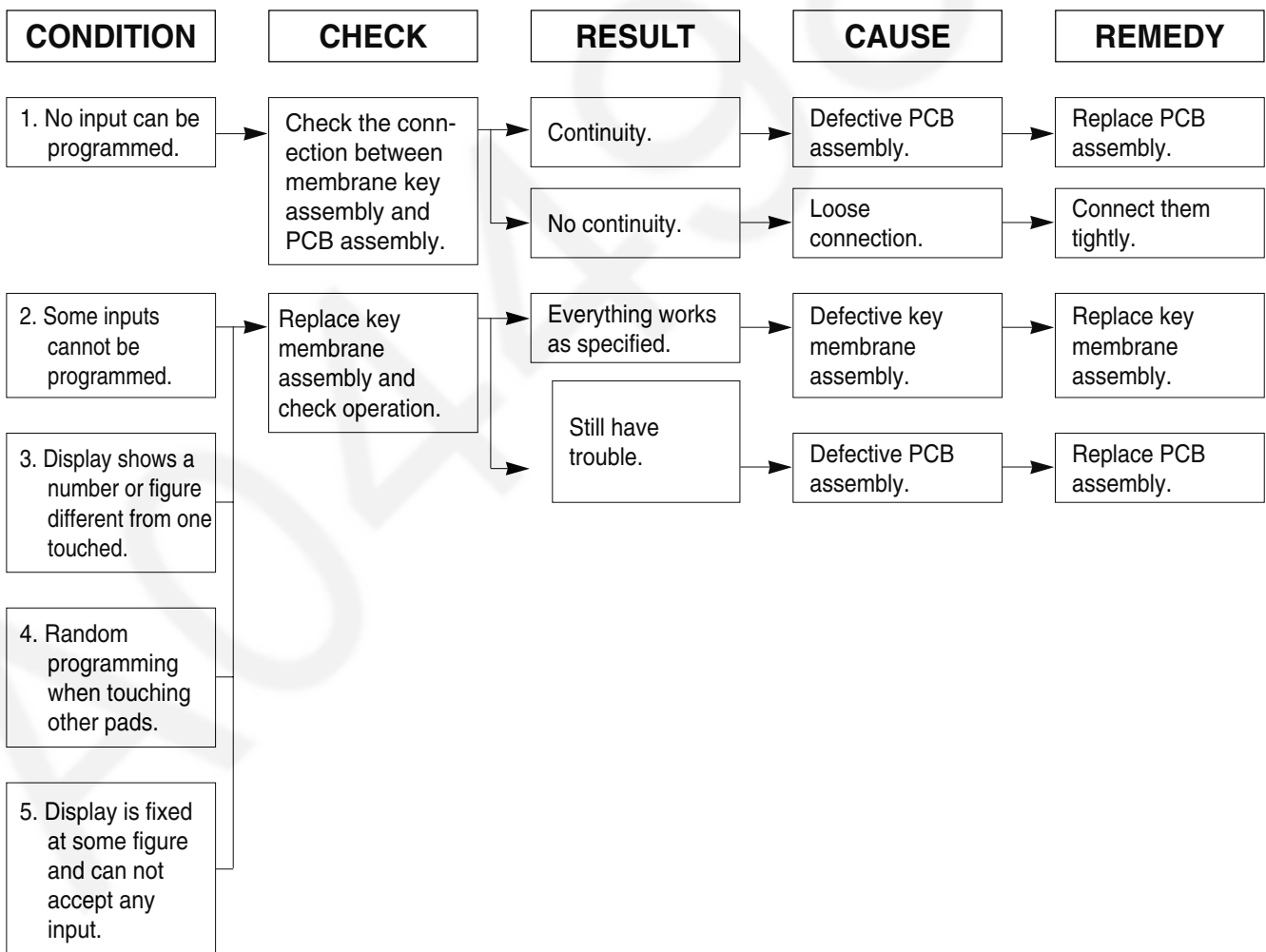
CAUTIONS

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.
 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.

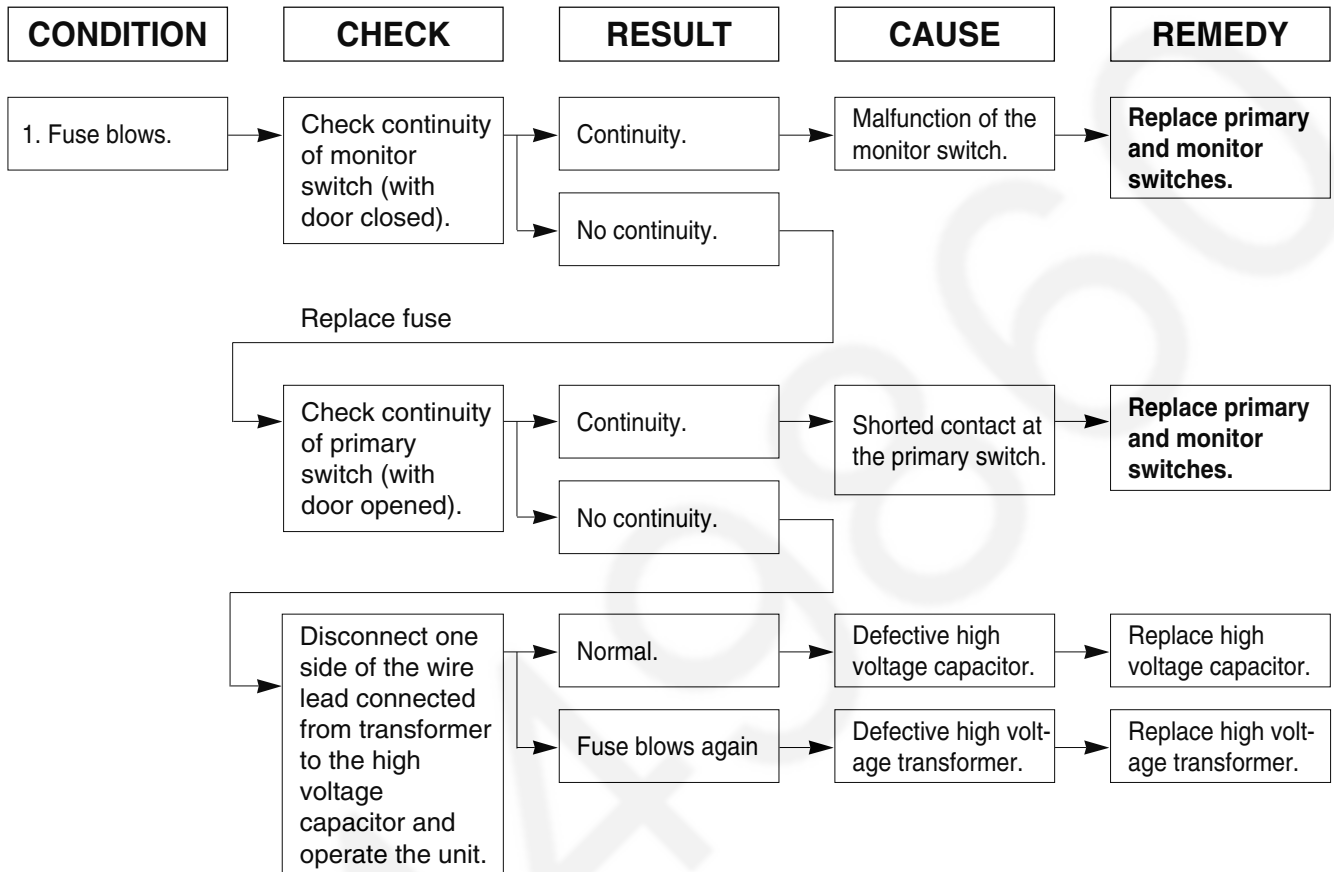
CONDITION	CAUSE	REMEDY
Microwave oven does not work.	Inserting many plug into one plug outlet and using them at the same time (causes overloading).	Avoid using other electrical appliances when you use the microwave oven.
	Microwave oven plug is not inserted tightly.	Insert microwave oven plug securely.
Output power is too low.	Low AC input voltage.	Use the microwave oven at adequate line voltage.
	Food temperature is too low.	This may not be a defect. It is possible that the food should be cooked for a longer time period.
Sparks occurring.	Using metallic ware and allowing it to touch the oven wall.	Do not use metallic ware for cooking except where noted in the cooking guide.
	Ceramic ware trimmed in gold or silver powder is used.	Do not use any type of cookware with metallic trimming.
Uneven cooking.	Inconsistent intensity of microwave by their characteristics.	<ol style="list-style-type: none"> 1. Wrap the thinner part with aluminum foil. 2. Use plastic wrap or lid. 3. Stir once or twice while cooking soup, cocoa or milk, etc.
Turntable drags or makes noise.	Excessive weight on tray or improperly balanced.	Distribute food evenly. Cook smaller portions and, or use lighter weight cookware.

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

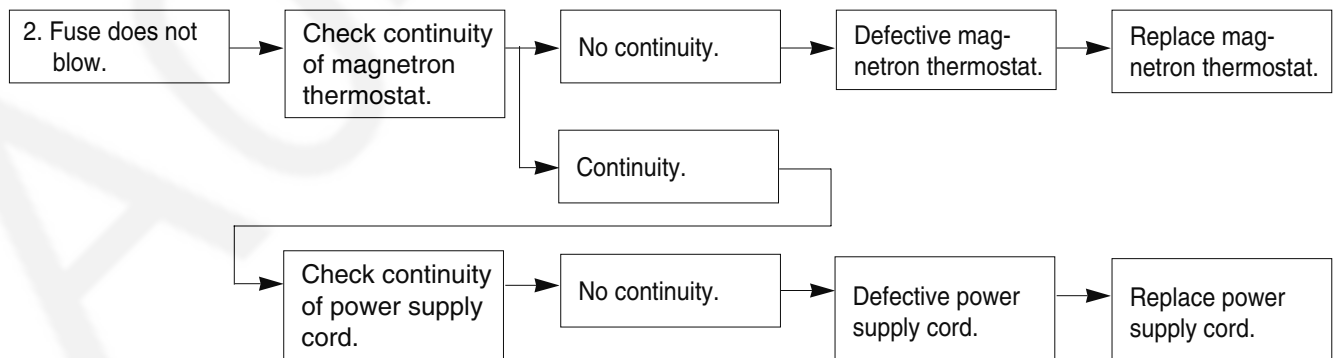
1. Incomplete segments.
 - Segment missing.
 - Partial segment missing.
 - Digit flickering (NOTE: Slight flickering is normal.)
2. Colon does not turn on or blink.
3. A distinct change in the brightness of one or more numbers in display.
4. One or more digits in the display are not lighting.
5. Display 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.



(TROUBLE 2) Oven does not operate at all ; Display window does not display any figures and no input is accepted.



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



(TROUBLE 3) Display shows all figures set, but oven does not start cooking while desired program times are set and START pad is touched.

CONDITION	CHECK	RESULT	CAUSE	REMEDY
1.Setting time does not count down when touching START pad.	Check continuity of secondary switch (with door closed).	No continuity.	Defective secondary switch.	Replace secondary switch.
		continuity.		
	Check the connection between connector and P.C.B assembly.	No continuity.	Loose connection.	Connection then tightly.
		Continuity.	Defective P.C.B assembly.	Replace P.C.B assembly.
2. Fan motor or oven lamp do not turn on.	Check fan motor.	Abnormal.	Defective fan motor.	Replace fan motor.
	Check oven lamp.	Abnormal.	Defective oven lamp.	Replace oven lamp.
		Normal.		

(TROUBLE 4) Oven seems to be operation but output power is low.

CONDITION	CHECK	RESULT	CAUSE	REMEDY
Output is low.	Check the power source voltage.	Lower than 90% of rating voltage.	Decrease in power source voltage with load.	Suggest customer contact local electric power utility co. or qualified electrician.
		Normal.		
	Disconnect the wire leads from relay 2 and check on and off time with multitester.	Abnormal.	Defective P.C.B assembly.	Replace P.C.B assembly.
		Normal.		
	Measure the output power.	Abnormal.	Defective magnetron.	Replace magnetron.

NOTE: Refer to Page 5-3 for measuring of microwave power output.

**(TROUBLE 5) No microwave oscillation even though oven lamp and fan motor run
(Display operates properly)**

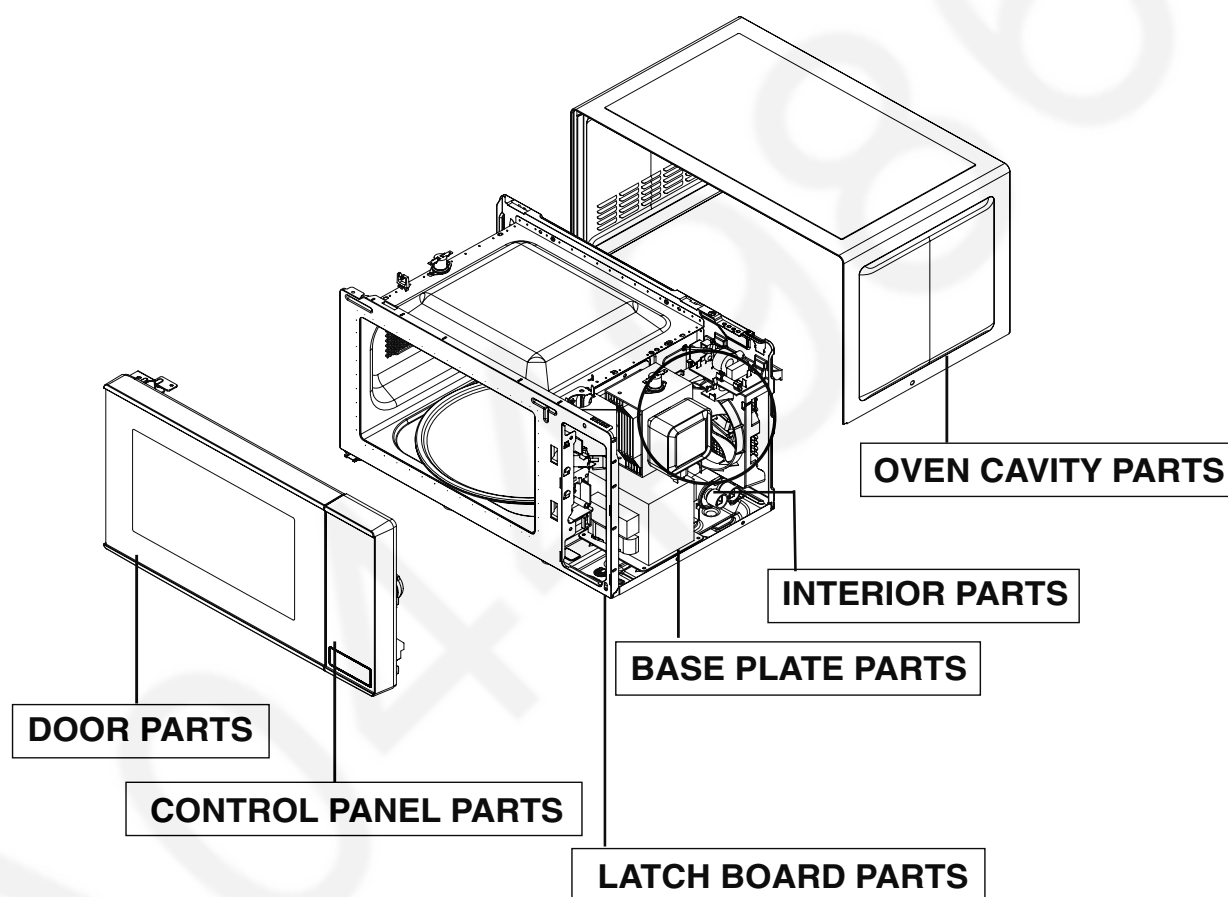
CONDITION	CHECK	RESULT	CAUSE	REMEDY
No microwave oscillation.	Disconnect the wire leads from relay 2 and check continuity of relay2. (Operate the unit)	No continuity.	Defective P.C.B assembly	Replace P.C.B assembly
		Continuity.		
	Check H.V. transformer.	Abnormal	Defective high voltage transformer.	Replace high voltage transformer .
		normal		
	Check H.V. capacitor.	Abnormal	Defective high voltage capacitor.	Replace high voltage capacitor.
		normal		
	Check H.V. diode.	Abnormal	Defective high voltage Diode.	Replace high voltage Diode.
		normal		
	Check Magnetron.	Abnormal	Defective magnetron.	Replace magnetron .

**(TROUBLE 6) Oven does not cook properly when programmed for the set power level
(Operates properly on HIGH)**

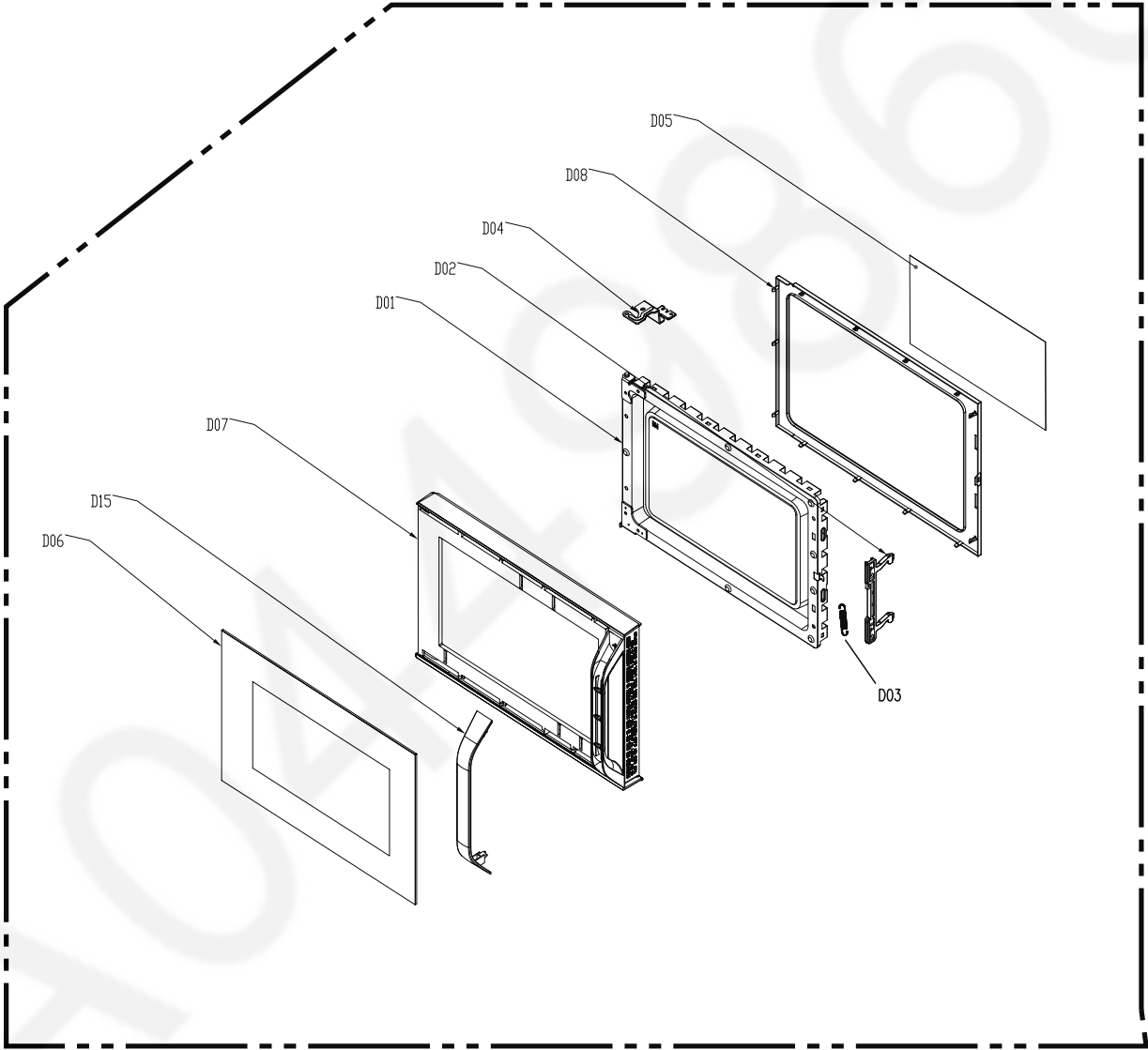
CONDITION	CHECK	RESULT	CAUSE	REMEDY
Output is full when you set lower power level.	Disconnect the wire leads from relay 2 and check continuity relay 2. (Operate the unit)	Abnormal.	Defective P.C.B. assembly.	Replace P.C.B. assembly.

EXPLODED VIEW

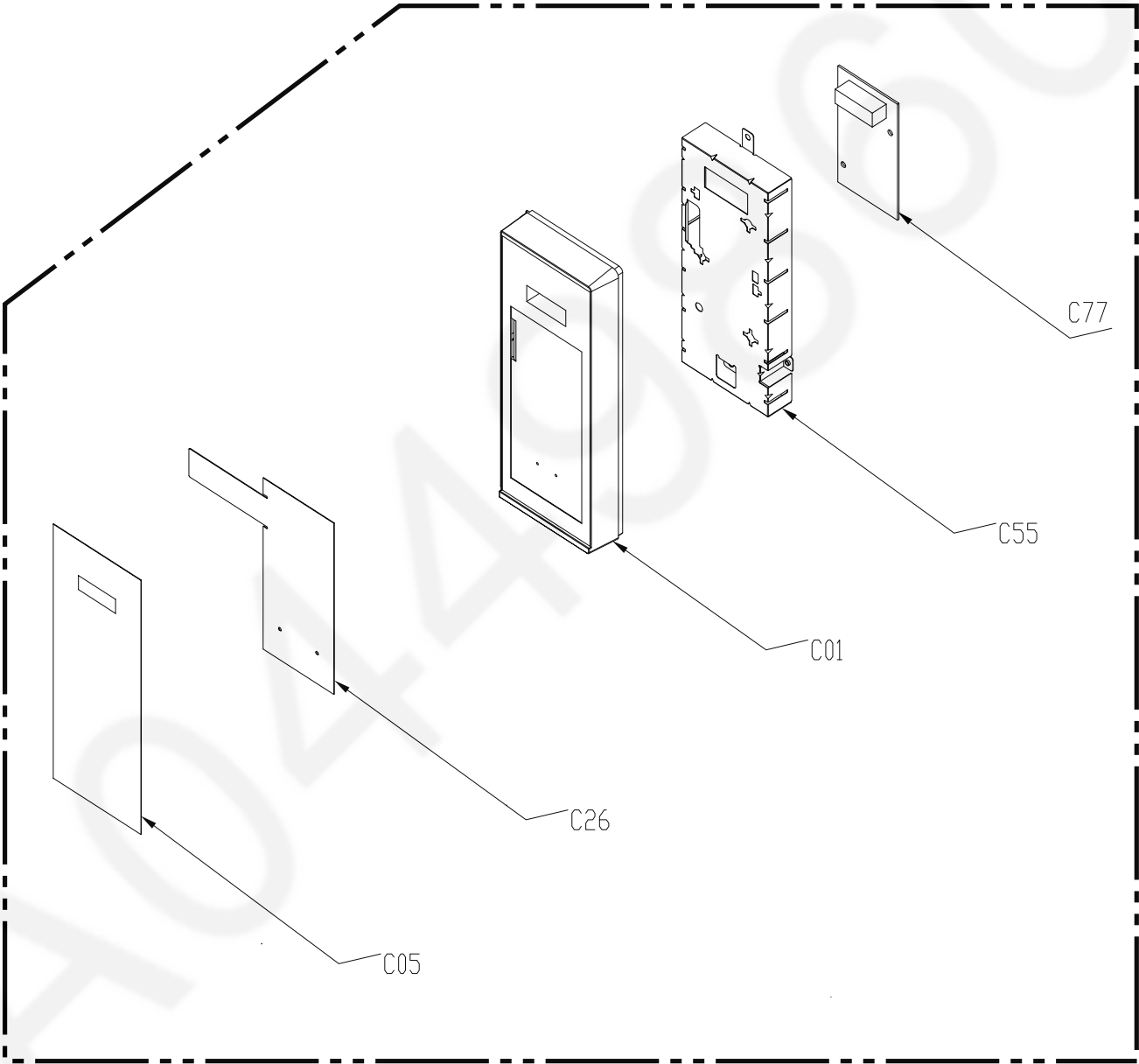
INTRODUCTION



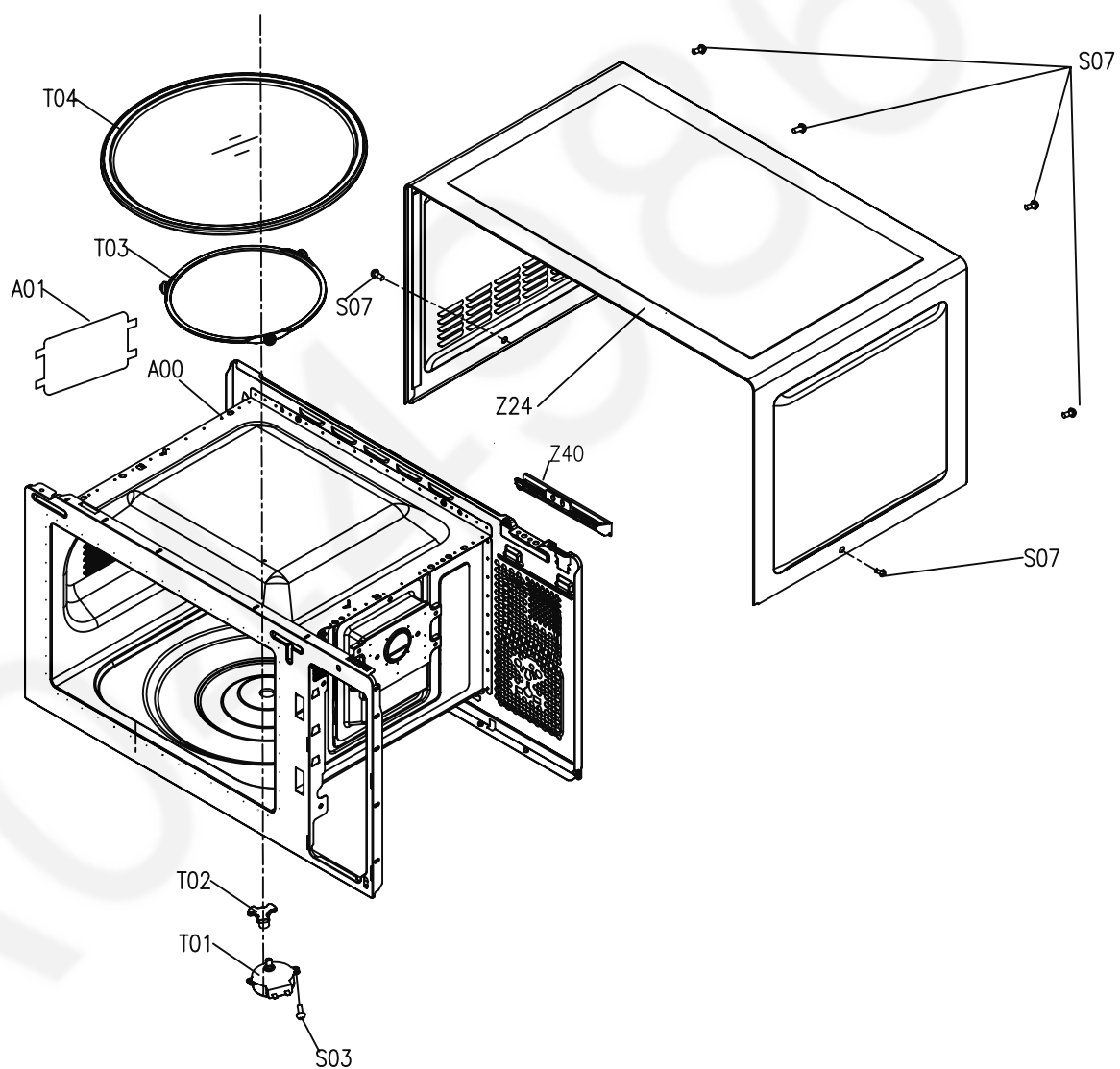
DOOR PARTS



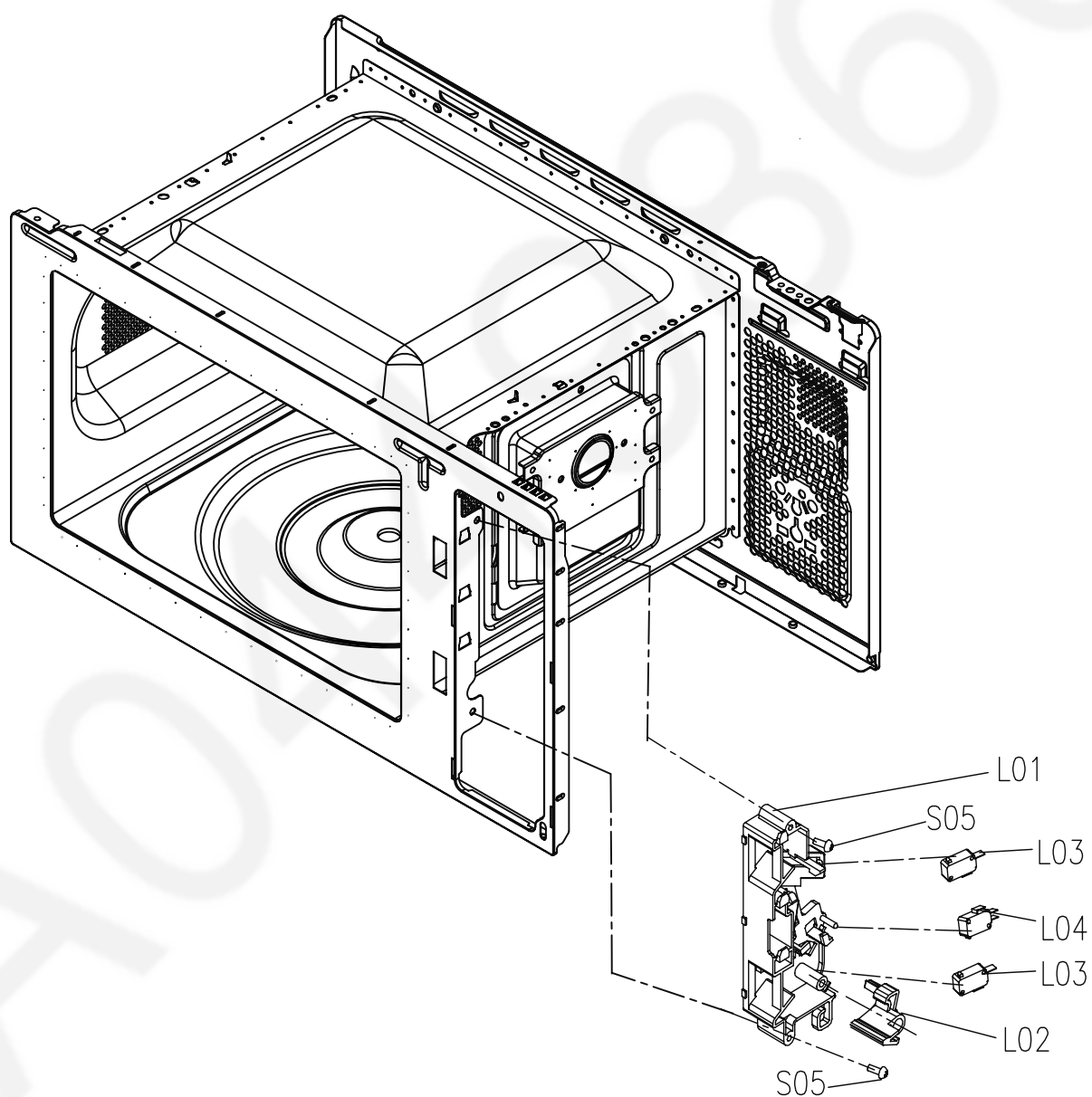
CONTROL PANEL PARTS



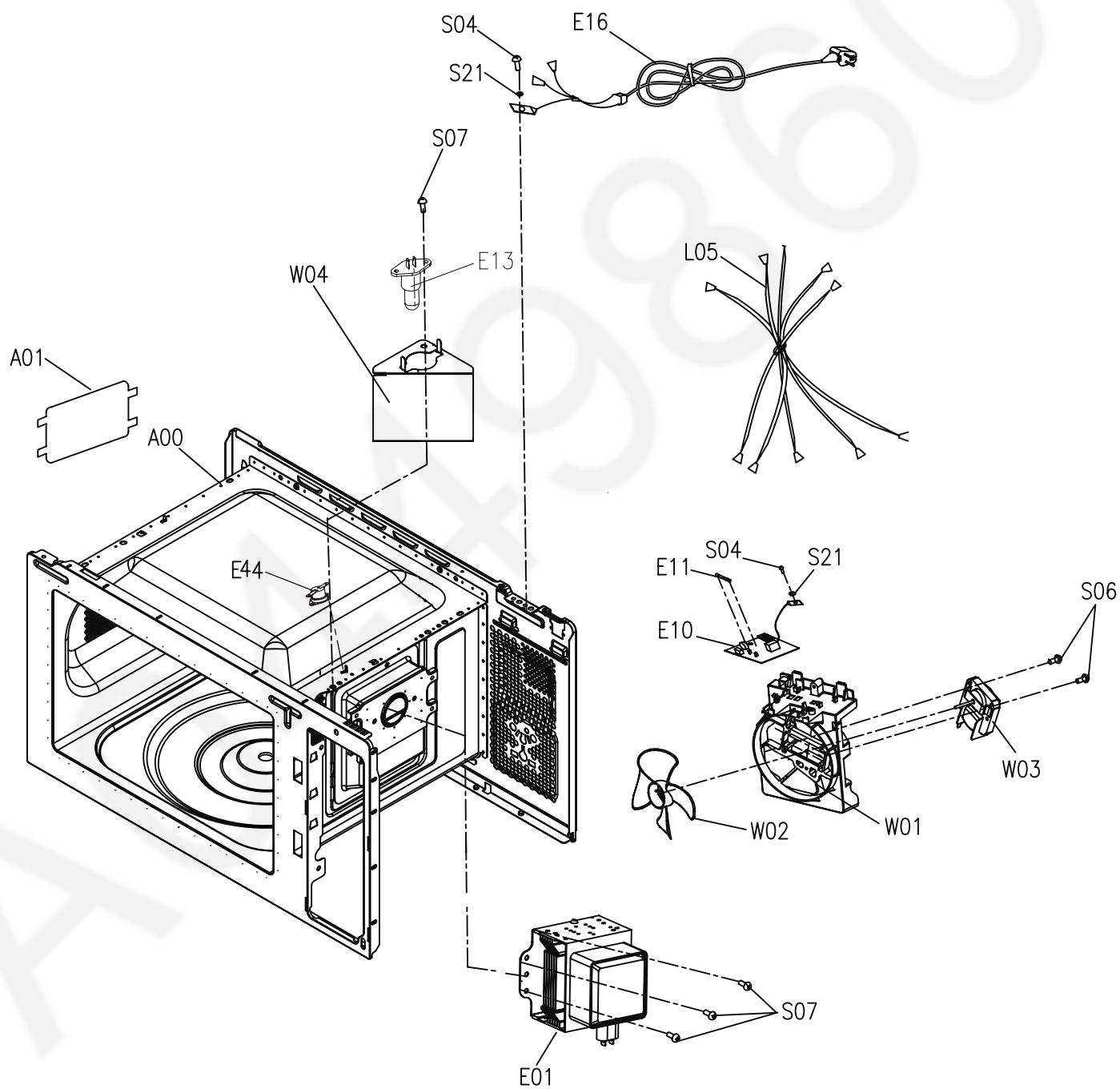
OVEN CAVITY PARTS



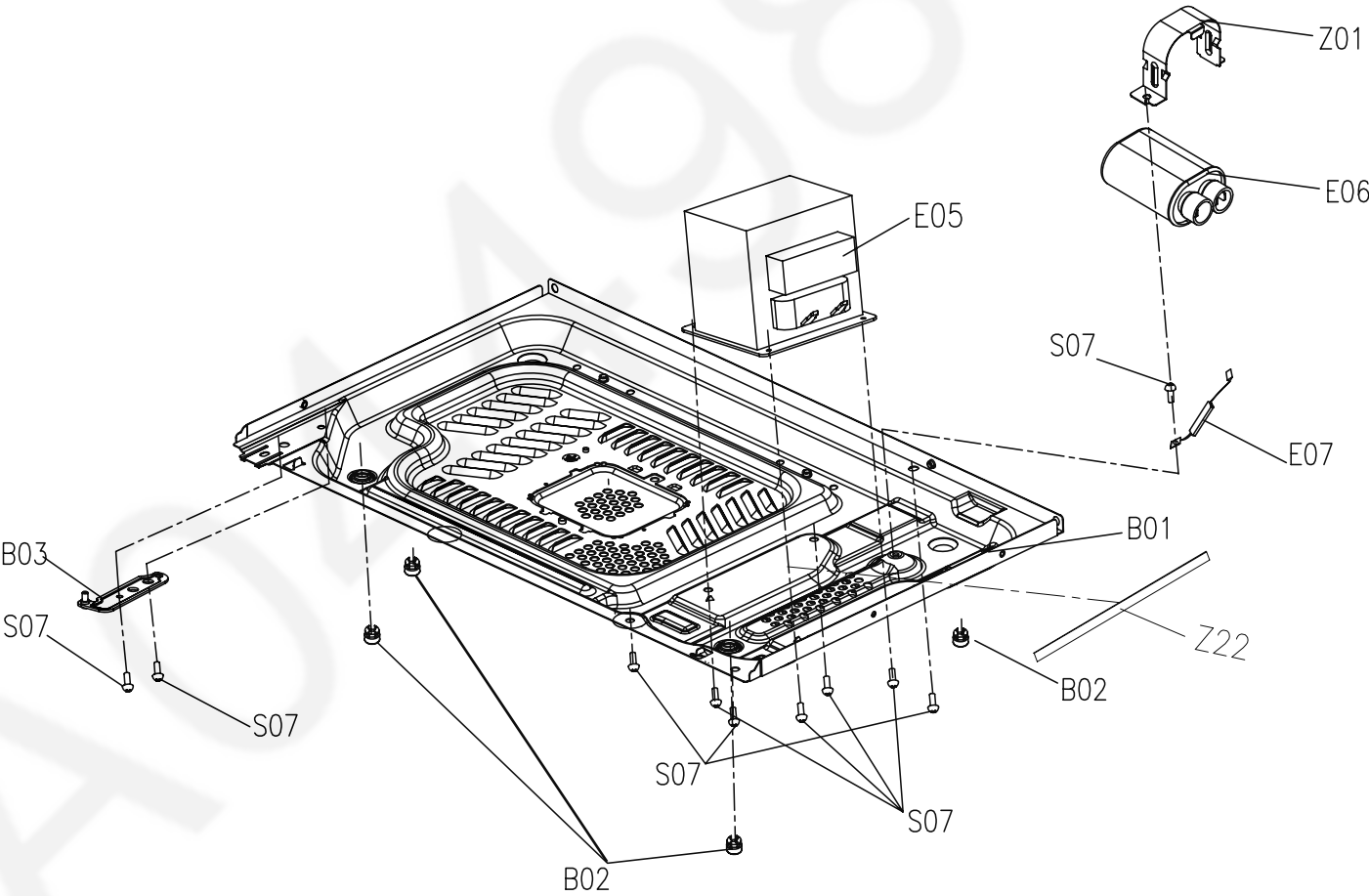
LATCH BOARD PARTS



INTERIOR PARTS



BASE PLATE PARTS



REPLACEMENT PARTS LIST

NOTE:

1. When ordering replacement part(s), please use part number(s) shown in this part list.
Do not use description of the part.
2. Important safety notice:
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

For Model: NN-ST34HMYTE

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
	A00	A200A46D0MP	OVEN CAVITY	1	
	A01	A205541V0ZP	CEILING COVER	1	
	B01	A100146B0MP	BASE	1	
	B02	A100841V0ZP	RUBBER FOOT	4	
	B03	A300741V0ZP	LOWER HINGE	1	
	C01	A803446B0MMP	ESCUTCHEON BASE	1	
	C05+C26	A630Y46D0MMP	MEMBRANE SWITCH(U)	1	
	C55	A812741V0ZP	ESCUT.BACK PLATE	1	
Δ	C77	A603L46D0MP	PC BOARD(U)	1	MY-8741
Δ	D01+D05	A302K41V0ZP	DOOR E UNIT	1	
	D02	A301841V0ZP	DOOR KEY A	1	
	D03	A323041V0ZP	DOOR KEY SPRING	1	
	D04	A317641V0ZP	TOP DOOR HINGE	1	
	D05	A314541V0ZP	DOOR SCREEN A	1	
Δ	D06+D07+D15	A302A46B0MMP	Door AU(Door A + Screen B) : Silver	1	ScreenB : Black
Δ	D08	A308541V0ZP	DOOR C	1	
Δ	E01	2M219J	MAGNETRON	1	
Δ	E05	A600B41V0ZP	H.V.TRANSFORMER	1	
Δ	E06	A609040N0BP	H.V. CAPACITOR	1	
Δ	E07	A620241V0ZP	DIODE, SI	1	
Δ	E10	A692Y41V1ZP	NOISE FILTER	1	
Δ	E11	A623040N0BP	FUSE	1	
	E13	A612E7W50BP	LAMP UNIT	1	
Δ	E16	A900C41U0YP	AC CORD W/PLUG	1	
Δ	E44	A614541T0ZP	THERMAL CUTOFF(OVEN)	1	120°C/0°C
Δ	L01	A302041V0ZP	DOOR HOOK A	1	
	L02	A313641V0ZP	HOOK SPACER	1	
Δ	L03	A614141V0ZP	MICROSWITCH	2	
Δ	L04	A614241V0ZP	MICROSWITCH(MONITOR SWITCH)	1	
Δ	L05	A030A41T0ZP	LEAD WIRE HARNESS	1	
	T01	A632641V0ZP	TURNTABLE MOTOR	1	
	T02	A213140N0BP	PULLY SHAFT	1	
	T03	A290D41V0ZP	ROLLER RING(U)	1	
	T04	A060141V0ZP	COOKING TRAY	1	
	W01	A414441V0ZP	ORIFICE	1	
	W02	A400841V0ZP	FAN BLADE	1	
	W03	A400A41V0ZP	FAN MOTOR	1	
	W04	A402541V0ZP	AIR GUIDE A	1	
	Z01	A618841V0ZP	BRACKET, H.V CAPACITOR	1	
	Z22	A09047W50BP	CUSHION RUBBER	1	Baseplate
	Z24	A110D46B0MMP	CABINET BODY(U)	1	
	Z40	A488540N0BP	BRACKET, WATER SEALING	1	
		A010441V0ZP	UPPER FILLER	1	
		A010541V0ZP	LOWER FILLER	1	
		A010641V0ZP	VINYL BAG	1	
		A010246D0MMP	CARTON BOX	1	
		A000346D0MP	OPERATING INSTRUCTION	1	
		A000641T0MP	WARNING LABEL	1	
		A033446D0MP	MENU LABEL	1	Attached on the Oven Cavity

For Model: NN-ST34HMYPQ

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
	A00	A200A46D0MP	OVEN CAVITY	1	
	A01	A205541V0ZP	CEILING COVER	1	
	B01	A100146B0MP	BASE	1	
	B02	A100841V0ZP	RUBBER FOOT	4	
	B03	A300741V0ZP	LOWER HINGE	1	
	C01	A803446B0MMP	ESCUTCHEON BASE	1	
	C05+C26	A630Y46D0MMP	MEMBRANE SWITCH(U)	1	
	C55	A812741V0ZP	ESCUT.BACK PLATE	1	
△	C77	A603L46D0MP	PC BOARD(U)	1	MY-8741
△	D01+D05	A302K41V0ZP	DOOR E UNIT	1	
	D02	A301841V0ZP	DOOR KEY A	1	
	D03	A323041V0ZP	DOOR KEY SPRING	1	
	D04	A317641V0ZP	TOP DOOR HINGE	1	
	D05	A314541V0ZP	DOOR SCREEN A	1	
△	D06+D07+D15	A302A46B0MMP	Door AU(Door A + Screen B) : Silver	1	ScreenB : Black
△	D08	A308541V0ZP	DOOR C	1	
△	E01	2M219J	MAGNETRON	1	
△	E05	A600B41U0KP	H.V.TRANSFORMER	1	
△	E06	A618841V0ZP	H.V. CAPACITOR	1	
△	E07	A620241V0ZP	DIODE, SI	1	
△	E10	A692Y41V1ZP	NOISE FILTER	1	
△	E11	A623040N0BP	FUSE	1	
	E13	A612E7W50BP	LAMP UNIT	1	
△	E16	A900C41U0YP	AC CORD W/PLUG	1	
△	E44	A614541T0ZP	THERMAL CUTOOUT(OVEN)	1	120°C/0°C
△	L01	A302041V0ZP	DOOR HOOK A	1	
	L02	A313641V0ZP	HOOK SPACER	1	
△	L03	A614141V0ZP	MICROSWITCH	2	
△	L04	A614241V0ZP	MICROSWITCH(MONITOR SWITCH)	1	
△	L05	A030A41T0ZP	LEAD WIRE HARNESS	1	
	T01	A632641V0ZP	TURNABLE MOTOR	1	
	T02	A213140N0BP	PULLY SHAFT	1	
	T03	A290D41V0ZP	ROLLER RING(U)	1	
	T04	A060141V0ZP	COOKING TRAY	1	
	W01	A414441V0ZP	ORIFICE	1	
	W02	A400841V0ZP	FAN BLADE	1	
	W03	A400A41V0ZP	FAN MOTOR	1	
	W04	A402541V0ZP	AIR GUIDE A	1	
	Z01	A618841V0ZP	BRACKET, H.V CAPACITOR	1	
	Z22	A09047W50BP	CUSHION RUBBER	1	Baseplate
	Z24	A110D46B0MMP	CABINET BODY(U)	1	
	Z40	A488540N0BP	BRACKET, WATER SEALING	1	
		A010441V0ZP	UPPER FILLER	1	
		A010541V0ZP	LOWER FILLER	1	
		A010641V0ZP	VINYL BAG	1	
		A010246D0MMP	CARTON BOX	1	
		A000346D0MP	OPERATING INSTRUCTION	1	
		A000641T0MP	WARNING LABEL	1	
		A033446B0MP	MENU LABEL	1	Attached on the Oven Cavity

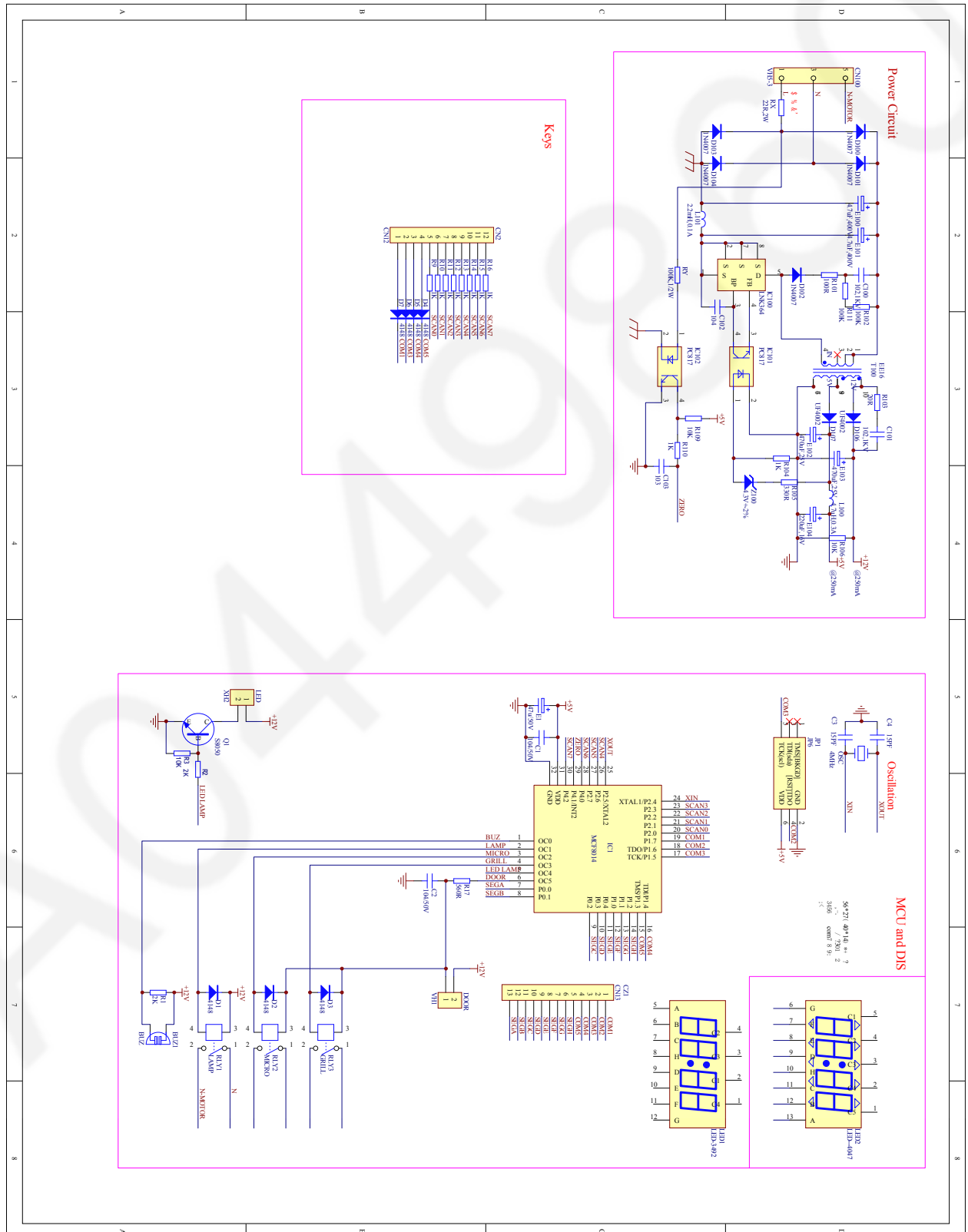
For Model: NN-ST34HMRPH

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
	A00	A200A46D0RP	OVEN CAVITY	1	Color : White
	A01	A205541V0ZP	CEILING COVER	1	
	B01	A100146B0MP	BASE	1	
	B02	A100841V0ZP	RUBBER FOOT	4	
	B03	A300741V0ZP	LOWER HINGE	1	
	C01	A803446B0MMP	ESCUTCHEON BASE	1	
	C05+C26	A630Y46D0MRP	MEMBRANE SWITCH(U)	1	
	C55	A812741V0ZP	ESCUT.BACK PLATE	1	
⚠	C77	A603L46D0RP	PC BOARD(U)	1	MR-8764
⚠	D01+D05	A302K41V0ZP	DOOR E UNIT	1	
	D02	A301841V0ZP	DOOR KEY A	1	
	D03	A323041V0ZP	DOOR KEY SPRING	1	
	D04	A317641V0ZP	TOP DOOR HINGE	1	
	D05	A31457W50BP	DOOR SCREEN A	1	
⚠	D06+D07+D15	A302A46B0MMP	Door AU(Door A + Screen B) : Silver	1	ScreenB : Black
⚠	D08	A308541V0ZP	DOOR C	1	
⚠	E01	2M219J	MAGNETRON	1	
⚠	E05	A600B41T0RP	H.V.TRANSFORMER	1	
⚠	E06	A609041T0RP	H.V. CAPACITOR	1	
⚠	E07	A620241V0ZP	DIODE, SI	1	
⚠	E10	A692Y41T1RT	NOISE FILTER	1	
⚠	E11	A623041T0RP	FUSE	1	
	E13	A612E41T0RP	LAMP UNIT	1	
⚠	E16	A900C41T0RP	AC CORD W/PLUG	1	
⚠	E44	A614541T0ZP	THERMAL CUTOFF(OVEN)	1	120°C/0°C
⚠	L01	A302041V0ZP	DOOR HOOK A	1	
	L02	A313641V0ZP	HOOK SPACER	1	
⚠	L03	A614141V0ZP	MICROSWITCH	2	
⚠	L04	A614241V0ZP	MICROSWITCH(MONITOR SWITCH)	1	
⚠	L05	A030A41T0ZP	LEAD WIRE HARNESS	1	
	T01	A632641T0RP	TURNTABLE MOTOR	1	
	T02	A213140N0BP	PULLEY SHAFT	1	
	T03	A290D41V0ZP	ROLLER RING(U)	1	
	T04	A060141V0ZP	COOKING TRAY	1	
	W01	A414441V0ZP	ORIFICE	1	
	W02	A400841V0ZP	FAN BLADE	1	
	W03	A400A41T0RP	FAN MOTOR	1	
	W04	A402541V0ZP	AIR GUIDE A	1	
	Z01	A618841V0ZP	BRACKET, H.V CAPACITOR	1	
	Z22	A09047W50BP	CUSHION RUBBER	1	Baseplate
	Z24	A110D46B0MMP	CABINET BODY(U)	1	
	Z40	A488540N0BP	BRACKET, WATER SEALING	1	
		A010441V0ZP	UPPER FILLER	1	
		A010541V0ZP	LOWER FILLER	1	
		A010641V0ZP	VINYL BAG	1	
		A010246D0MRP	CARTON BOX	1	
		A000346D0RP	OPERATING INSTRUCTION	1	
		A000641T0MP	WARNING LABEL	1	
		A033446D0RP	MENU LABEL	1	Attached on the Oven Cavity

For Model: NN-ST34HMQPQ

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
	A00	A200A46D0MP	OVEN CAVITY	1	
	A01	A205541V0ZP	CEILING COVER	1	
	B01	A100146B0MP	BASE	1	
	B02	A100841V0ZP	RUBBER FOOT	4	
	B03	A300741V0ZP	LOWER HINGE	1	
	C01	A803446D0WQP	ESCUTCHEON BASE	1	
	C05+C26	A630Y46D0WQP	MEMBRANE SWITCH(U)	1	
	C55	A812741V0ZP	ESCUT.BACK PLATE	1	
⚠	C77	A603L46D0QP	PC BOARD(U)	1	AU-8761
⚠	D01+D05	A302K41V0ZP	DOOR E UNIT	1	
	D02	A301841V0ZP	DOOR KEY A	1	
	D03	A323041V0ZP	DOOR KEY SPRING	1	
	D04	A317641V0ZP	TOP DOOR HINGE	1	
	D05	A314541V0ZP	DOOR SCREEN A	1	
⚠	D06+D07+D15	A302A46D0WQP	Door AU(Door A + Screen B)/White	1	ScreenB/white
⚠	D08	A308541V0ZP	DOOR C	1	
⚠	E01	2M219J	MAGNETRON	1	
⚠	E05	A600B41U0KP	H.V.TRANSFORMER	1	
⚠	E06	A609041T0KP	H.V. CAPACITOR	1	
⚠	E07	A620241V0ZP	DIODE, SI	1	
⚠	E10	A692Y41V1ZP	NOISE FILTER	1	
⚠	E11	A623040N0BP	FUSE	1	
	E13	A612E7W50BP	LAMP UNIT	1	
⚠	E16	A900C41T0QP	AC CORD W/PLUG	1	
⚠	E44	A614541T0ZP	THERMAL CUTOFF(OVEN)	1	120°C/0°C
⚠	L01	A302041V0ZP	DOOR HOOK A	1	
	L02	A313641V0ZP	HOOK SPACER	1	
⚠	L03	A614141V0ZP	MICROSWITCH	2	
⚠	L04	A614241V0ZP	MICROSWITCH(MONITOR SWITCH)	1	
⚠	L05	A030A41T0ZP	LEAD WIRE HARNESS	1	
	T01	A632641V0ZP	TURNABLE MOTOR	1	
	T02	A213140N0BP	PULLY SHAFT	1	
	T03	A290D41V0ZP	ROLLER RING(U)	1	
	T04	A060141V0ZP	COOKING TRAY	1	
	W01	A414441V0ZP	ORIFICE	1	
	W02	A400841V0ZP	FAN BLADE	1	
	W03	A400A41V0ZP	FAN MOTOR	1	
	W04	A402541V0ZP	AIR GUIDE A	1	
	Z01	A618841V0ZP	BRACKET, H.V CAPACITOR	1	
	Z24	A110D46D0WQP	CABINET BODY(U)	1	
	Z40	J488540N0BP	BRACKET, WATER SEALING	1	
		J010441V0ZP	UPPER FILLER	1	
		J010541V0ZP	LOWER FILLER	1	
		A010641V0ZP	VINYL BAG	1	
		A010246D0WQP	CARTON BOX	1	
		A000346D0QP	OPERATING INSTRUCTION	1	
		J000641T0LP	WARNING LABEL	1	
		A033446D0QP	MENU LABEL	1	Attached on the Oven Cavity

SCHEMATIC DIAGRAM OF P.C.B



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