



Service Manual

Microwave Oven

Model: KOR-8CBB5W

Caution

: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).



Mar. 2010

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 power to the microwave oven 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.

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SAFETY AND PRECAUTIONS

1. FOR SAFE OPERATION

Damage that allows the microwave energy (that cooks or heats the food) to escape will result in poor cooking and may cause serious bodily injury to the operator.

IF ANY OF THE FOLLOWING CONDITIONS EXIST, OPERATOR MUST NOT USE THE APPLIANCE.

(Only a trained service personnel should make repairs.)

- (1) A broken door hinge.
- (2) A broken door viewing screen.
- (3) A broken front panel, oven cavity.
- (4) A loosened door lock.
- (5) A broken door lock.

The door gasket plate and oven cavity surface should be kept clean.

No grease, soil or spatter should be allowed to build up on these surfaces or inside the oven.

DO NOT ATTEMPT TO OPERATE THIS APPLIANCE WITH THE DOOR OPEN.

The microwave oven has concealed switches to make sure the power is turned off when the door is opened. Do not attempt to defeat them.

DO NOT ATTEMPT TO SERVICE THIS APPLIANCE UNTIL YOU HAVE READ THIS SERVICE MANUAL.

2. FOR SAFE SERVICE PROCEDURES

- If the oven is operative prior to servicing, a microwave emission check should be performed prior to servicing the oven.
- 2. If any certified oven unit is found to servicing, a microwave emission check should be performed prior to servicing the oven.
 - (a) inform the manufacturer, importer or assembler,
 - (b) repair the unit at no cost to the owner,
 - (c) attempt to ascertain the cause of the excessive leakage,
 - (d) tell the owner of the unit not to use the unit until the oven has been brought into compliance.
- 3. If the oven operates with the door open, the service person should tell the user not to operate the oven and contact the manufacturer and the dealer immediately.

IMPORTANT

The wire in this mains lead 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', earth symbol or colored green-and-yellow.

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

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

NOTE:

The oven is designed for counter-top use only.

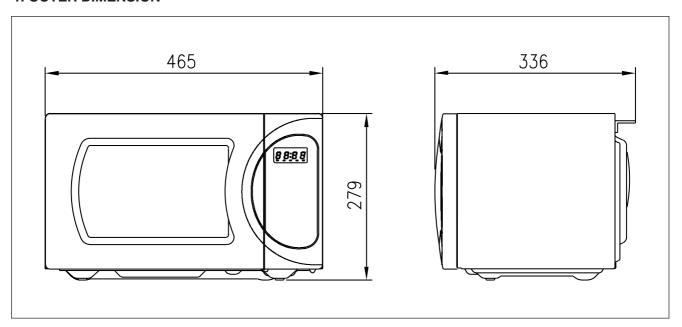
SPECIFICATIONS

MODEL		KOR-8CBB5W
POWER SUPPLY		230V-50Hz, SINGLE PHASE WITH EARTHING
	MICROWAVE	1200W
POWER CONSUMPTION	GRILL	
	COMBINATION	
MICROWAVE ENERGY OUT	PUT	800W
MICROWAVE FREQUENCY		2450MHz
OUTSIDE DIMENSIONS (W.)	X H X D)	465 x 287 x 364 mm
CAVITY DIMENSIONS (W X	H X D)	298 x 230 x 330 mm
NET WEIGHT		APPROX. 11.8 kg
TIMER		59 min. 90 sec.
function selections		MICROWAVE
POWER selections		10 LEVELS
cavity volume		23 L

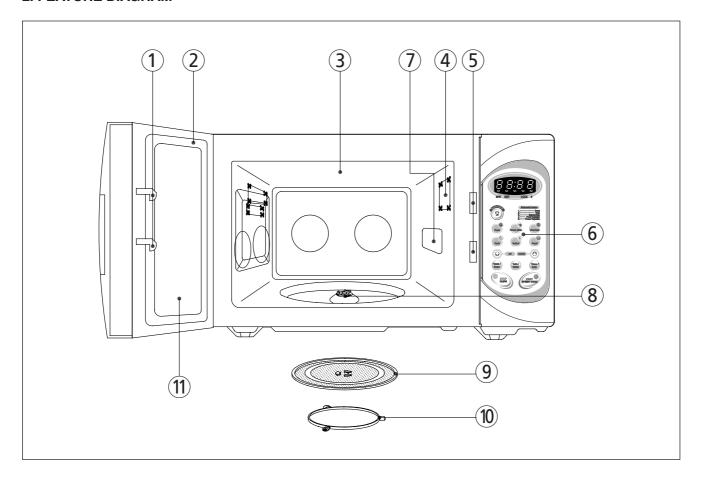
^{*} Specifications are subject to change without notice.

EXTERNAL VIEW

1. OUTER DIMENSION



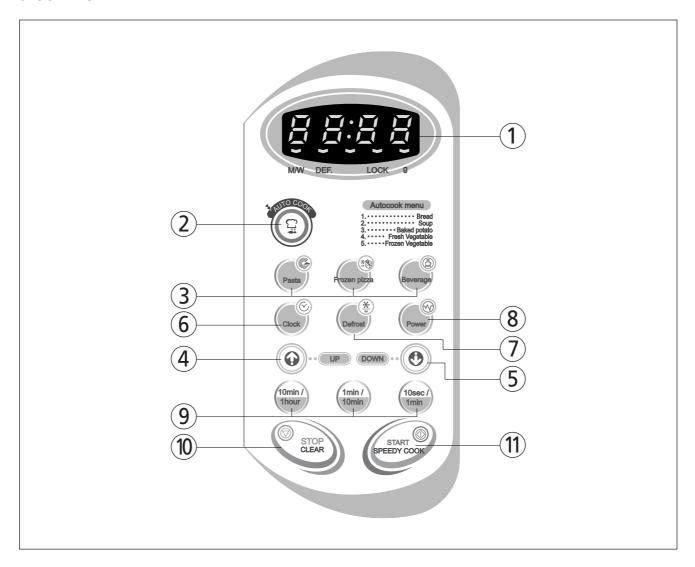
2. FEATURE DIAGRAM



- 1 DOOR HOOK When the door is closed, it will automatically lock shut.

 If door is opened while oven is operating, magnetron tube will immediately stop operating.
- 2 DOOR SEAL Door seal maintains the microwave within the oven cavity and prevents microwave leakage.
- **(3) OVEN CAVITY**
- **4 OVEN LAMP** Automatically turns on during oven operating.
- (5) SAFETY INTERLOCK SYSTEM
- **6 CONTROL PANEL**
- **⑦ SPATTER SHIELD -** Protects the microwave outlet from splashes of cooking foods.
- **8 COUPLER -** This fits over the shaft in the center of the oven cavity floor. This is to remain in the oven for all cooking.
- (9) GLASS COOKING TRAY Made of special heat resistant glass. The tray must always be in proper position before operating. Do not cook food directly on the tray.
- 10 ROLLER GUIDE Supports the glass cooling tray.
- (11) DOOR SCREEN Allows viewing of food. Microwave cannot pass through perforations in screen.

3. CONTROL PANEL



- 1 **DISPLAY-**Cooking time, power level, indicators and the current time are displayed.
- 2 AUTO COOK-Used to cook or reheat many of favorite food.
- 3 ONE TOUCH COOK-Used to cook or reheat specific quantities of food.
- 4 **UP-**Used to add time to cooking.
- (5) **DOWN-**Used to decrease time to cooking.
- (6) **CLOCK-**Used to set clock.
- (7) **DEFROST-**Used to defrost foods for time.
- 8 **POWER-**Used to set power level.
- 9 TIME SET PAD-Used to set the cooking time and the current time.
- (10) STOP/CLEAR-Used to stop the oven operation or to delete the cooking data.
- (1) **START/SPEEDY COOK-**Used to start the oven and also used to set a reheat time.

INSTALLATION

1. Steady, flat location

This microwave oven should be set on a steady, flat surface.

This microwave oven is designed for counter top use only.

2. Leave space behind and side

All air vents should be kept a clearance. If all vents are covered during operation, the oven may overheat and, eventually, cause failure.

3. Away from radio, and TV sets

Poor television reception and radio interference may result if the oven is located close to a TV, radio, antenna, or feeder and so on. Position the oven as far from them as possible.

4. Away from heating appliances and water taps

Keep the oven away from hot air, steam and splash when choosing a place to position it, or the insulation might be adversely affected and breakdowns occur.

5. Power supply

- · Check your local power source.
 - This microwave oven requires a current of approximately 12 amperes, 230 Volts, 50 Hz.
- · Power supply cord is about 0.8 meters long.
- Used the voltage must be the same as specified on this oven. Using a higher voltage may result in a fire or other accident causing oven damage. Using low voltage will cause slow cooking. We are not responsible for damage resulting from use of this oven with a voltage of ampere fuse other than those specified.
- This appliance is supplied with cable of special type, which, if damaged, must be repaired with cable of same type. Such a cable can be purchased from DAEWOO and must be installed by a qualified person.

6. Examine the oven after unpacking for any damage such as:

A misaligned door, broken door or a dent in cavity.

If any of the above are visible, DO NOT INSTALL, and notify dealer immediately.

7. Do not operate the oven if it is colder than room temperature

(This may occur during delivery in cold weather.) Allow the oven to become room temperature before operating.

EARTHING INSTRUCTIONS

This appliance must be earthed. In the event of an electrical short circuit, earthing reduces the risk of the electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a earthing plug. The plug must be plugged into an outlet that is properly installed and earthed.

WARNING

Improper use of the earthing plug can result in a risk of electric shock. Consult a qualified electrician or service-man if the earthing instructions are not completely understood, or if doubt exists as to whether the appliance is properly earthed, and either: If it is necessary to use an extension cord, use only a 3-wire extension cord that has a 3-blade earthing plug, and a 3-slot receptacle that will accept the plug on the appliance. The marked rating of the extension cord should be equal to or greater than the electrical rating of the appliance, or DO NOT USE an extension cord.

OPERATIONS AND FUNCTIONS

- 1. Connect the mains lead to an electrical outlet.
- 2. After placing the food in a suitable container, open the oven door and put it on the glass tray. The glass tray must always be in place during cooking.
- 3. Close the door securely.
- 4. When the oven door is opened, the light turns off.
- 5. The oven door can be opened at any time during operation by pushing the door release button on the control panel. The oven will automatically shut off. To restart the oven, close the door and then touch the START pad.
- 6. Each time a pad is touched. a BEEP will sound to acknowledge the touch.
- 7. The oven automatically cook on full power unless set to a lower power level.
- 8. The display will show: 0 when the oven is plugged in.
- 9. Time clock returns to the present time when the cooking time ends.
- 10. When the STOP/CLEAR pad is touched during the oven operation, the oven stops cooking and all information retained.
 To erase all information (except the present time), touch the STOP/CLEAR pad once more. If the oven door is opened during the oven operation, all information is retained.
- 11. If the START pad is touched and the oven does not operate, check the area between the door and door is closed securely. The oven will not start cooking under the door is completely closed or the program has been reset.

Make sure the oven is properly installed and plugged into the electrical.

Wattage output chart

The power level is set by touching the POWER pad. The chart shows the display, the power level and the percentage of power.

Touch POWER Pad	Power Level(Display)	Approximate Percentage of Power
Once	P-HI	100%
Twice	P-90	90%
3 times	P-80	80%
4 times	P-70	70%
5 times	P-60	60%
6 times	P-50	50%
7 times	P-40	40%
8 times	P-30	30%
9 times	P-20	20%
10 times	P-10	10%
11 times	P-00	00%

DISASSEMBLY AND ASSEMBLY

Cautions to be observed when troubleshooting.

Unlike many other appliances, the microwave oven is high-voltage, high-current equipment.

It is completely safe during normal operation.

However, carelessness in servicing the oven can result in an electric shock or possible danger from a short circuit. You are asked to observe the following precautions carefully.

- 1. Always remove the power plug from the outlet before servicing.
- 2. Use an insulated screwdriver and ware rubber gloves when servicing the high voltage side.
- 3. Discharge the high voltage capacitor before touching any oven components or wiring.
 - (1) Check the grounding.

Do not operate on a two-wire extension cord.

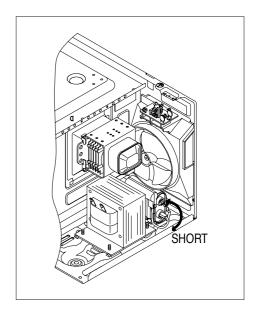
The microwave oven is designed to be used while earthed.

It is imperative, therefore, to make sure it is earthed properly before beginning repair work.

(2) Warning about the electric charge in the high voltage capacitor. For about 30 seconds after the operation stopped and electric charge remains in the high voltage capacitor. When replacing or checking parts, short between oven chassis and

the negative high terminal of the high voltage capacitor by using a properly insulated screwdriver to discharge.

- 4. When the 10A fuse is blown out due to the operation of the monitor switch; replace primary interlock switch, secondary interlock switch and interlock monitor switch.
- 5. After repair or replacement of parts, make sure that the screws are properly tightened, and all electrical connections are tightened.
- 6. Do not operate without cabinet.

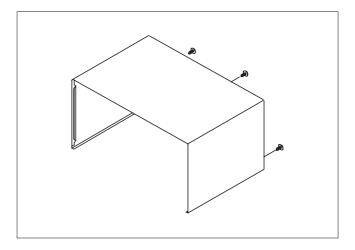


CAUTION: Service personnel should remove their watches whenever working close to or replacing the magnetron.

WARNING: When servicing the appliance, need a care of touching or replacing high potential parts because of electrical shock or exposing microwave. These parts are as follows - HV Transformer, Magnetron, HV Capacitor, HV Diode, HV fuse.

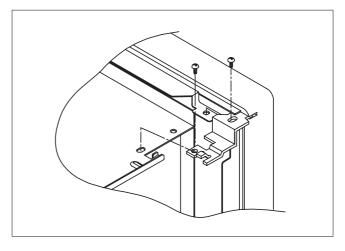
1. To remove cabinet

- 1) Remove three screws on cabinet back.
- 2) Pull the cabinet backward.



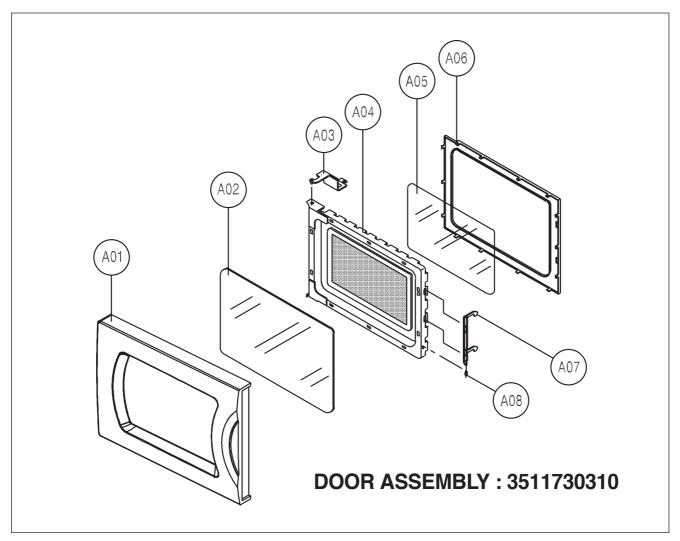
2. To remove door assembly

- 1) Remove two screws which secure the stopper hinge top.
- 2) Remove the door assembly from top plate of cavity.
- 3) Reverse the above for reassembly.



NOTE: After replacing the door assembly, perform a check of correct alignment with the hinge and cavity front plate.

3. To remove door parts.



REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
A01	3512209070	FRAME DOOR	HIPS SG-970 HG-1760H	1	
A02	3517007300	BARRIER-SCREEN*0	PET T0.125	1	
A03	3515204100	STOPPER HINGE *T AS	KOR-63150S	1	
A04	3511719500	DOOR PAINTING AS	KOR-6C0B5S	1	
A05	3517002800	BARRIER-SCREEN *I	POLYESTER T0.1	1	
A06	3512300210	GASKET DOOR	PP	1	
A07	3513100750	HOOK	POM	1	
A08	3515102000	SPRING HOOK	PW1	1	

- (1) Remove the gasket door from door painting as.
- (2) Remove the door frame from door painting as.
- (3) Remove the stopper hinge top from door painting as.
- (4) Remove the spring and the hook.
- (5) Remove the barrier screen outer from door frame.
- (6) Reverse the above steps for reassembly.

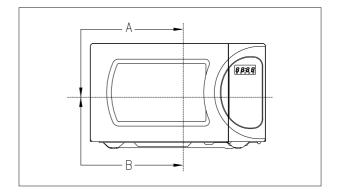
4. Method to reduce the gap between the door seal and the oven front surface.

(1) To reduce gap located on part 'A' Loosen two screws on stopper hinge top, and then push the door to contact the door seal to oven front surface.

Tighten two screws.

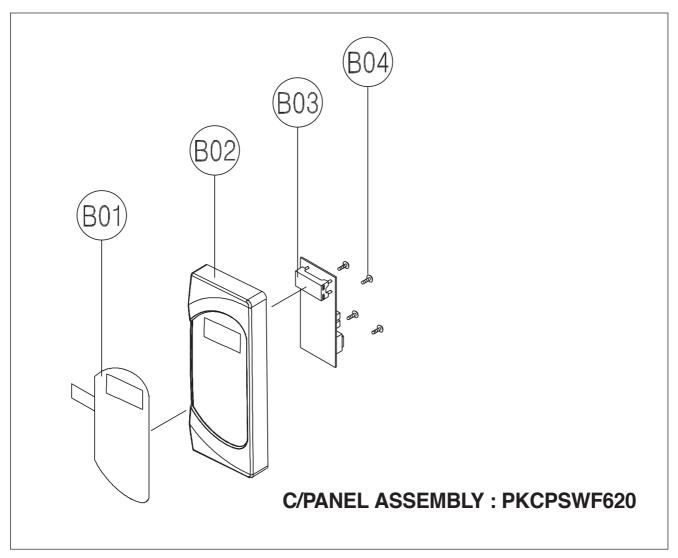
(2) To reduce gap located on part 'B' Loosen two screws on stopper hinge under, and then push the door to contact the door seal to oven front surface.

Tighten two screws.



NOTE: A small gap may be acceptable if the microwave leakage does not exceed 4mW/cm².

5. To remove control panel parts.

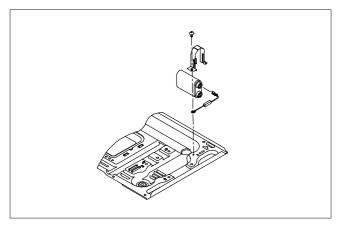


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B01	3518571630	SWITCH MEMBRANE	KOR-6QBB5S	1	
B02	3516733830	CONTROL PANEL	HIPS SG-970 HG-1760H	1	
B03	PKMPMSBA60	PCB AS	6N(800W,W,10,59)	1	
B04	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	4	

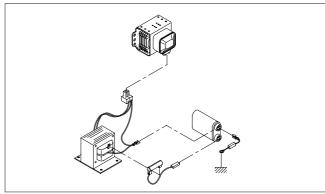
- (1) Remove the screw which secure the control panel, push up two snap fits and draw forward the control panel assembly.
- (2) Remove four screws which secure the PCB assembly to control panel.
- (3) Disconnect membrane tail from the connector of the PCB assembly.
- (4) Detach membrane from the control panel.
- (5) Reverse the above steps for reassembly.

6. To remove high voltage capacitor.

- 1) Remove a screw which secure the grounding ring terminal of the H.V. diode and the capacitor holder.
- 2) Remove the H.V. diode from the capacitor holder.
- 3) Reverse the above steps for reassembly.

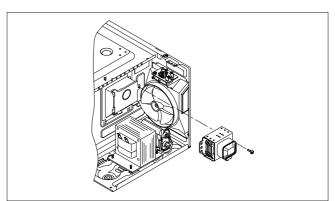


◆ High voltage circuit wiring

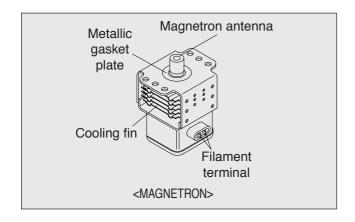


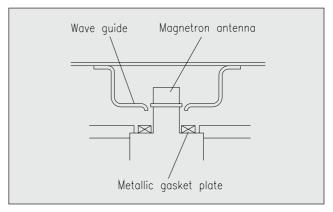
7. To remove magnetron.

- 1) Remove a screw which secure the magnetron.
- 2) Remove the magnetron.
- 3) Reverse the above steps for reassembly.



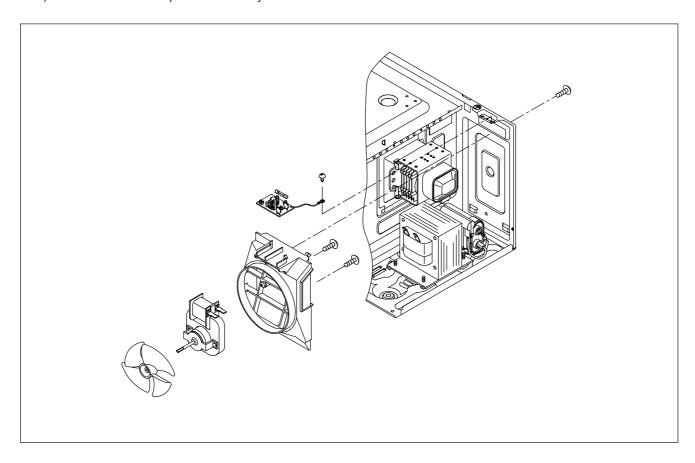
NOTE: Never install the magnetron without the metallic gasket plate which is packed with each magnetron to prevent microwave leakage. Whenever repair work is carried out on magnetron, check the microwave leakage. It shall not exceed 4mW/cm² for a fully assembled oven with door normally closed.





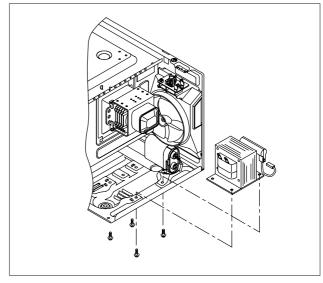
8. To remove wind guide assembly.

- 1) Remove a screw for earthing.
- 2) Remove the noise filter from the wind guide.
- 3) Remove a screw which secure the wind guide assembly.
- 4) Draw forward the wind guide assembly.
- 5) Pull the fan from the motor shaft.
- 6) Remove two screws which secure the motor shaded pole.
- 7) Remove the motor shaded pole.
- 8) Reverse the above steps for reassembly.



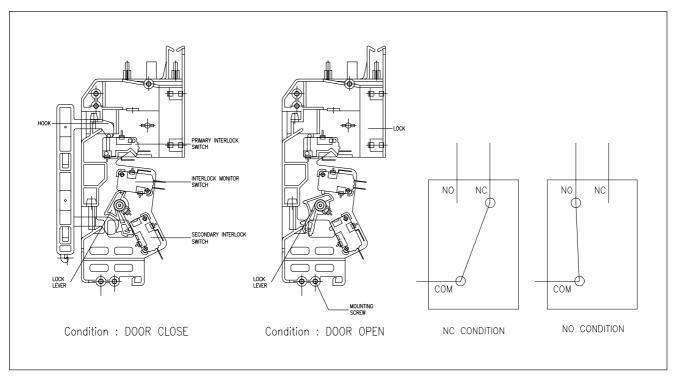
9. To remove H.V.transformer.

- 1) Remove four screws holding the H.V.transformer.
- 2) Remove the H.V.transformer.
- 3) Reverse the above steps for reassembly.



INTERLOCK MECHANISM AND ADJUSTMENT

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



(1) Primary interlock switch

When the door is closed, the hook locks the oven door. If the door is not closed properly, the oven will not operate. When the door is closed, the hook pushes the button of the microswitch. Then the button of the primary interlock switch bring it under NO condition.

(2) Secondary interlock switch and interlock monitor switch

When the door is closed, the hook pushes the lock lever downward. The lock lever presses the button of the interlock monitor switch to bring it under NO condition and presses the button of the secondary interlock switch to bring it under NO condition.

ADJUSTMENT:

Interlock monitor switch

When the door is closed, the interlock monitor switch should be changed (NO condition) before other switches are closed. When the door is opened, the interlock monitor switch should be changed (NC condition) after other switches are opened.

(3) Adjustment steps

- a) Loosen the mounting screw.
- b) Adjust interlock switch assembly position.
- c) Make sure that lock lever moves smoothly after adjustment is completed.
- d) Tighten completely a mounting screw.

NOTE

Microwave emission test should be performed after adjusting interlock mechanism. If the microwave emission exceed 4mW/cm², readjust interlock mechanism.

TROUBLESHOOTING GUIDE

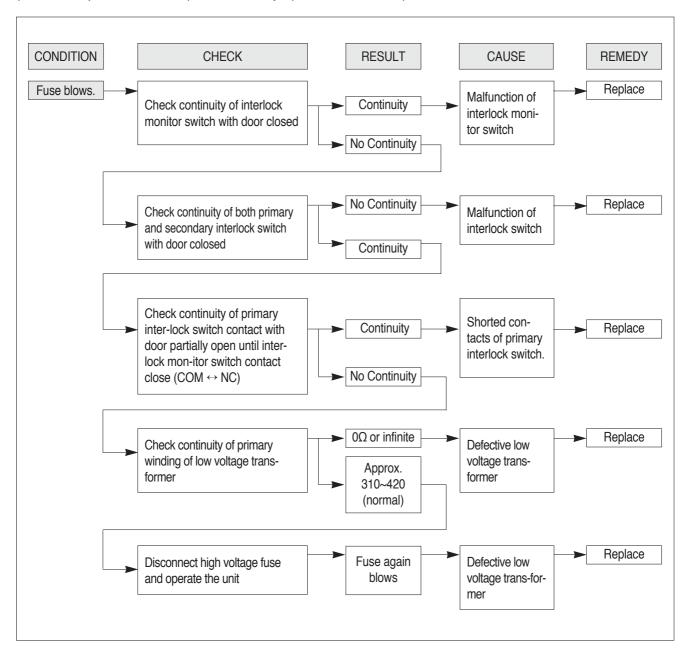
Following the procedure below to check if the oven is defective or not.

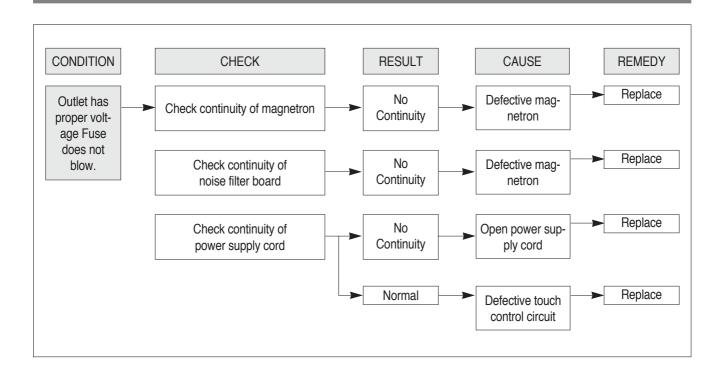
- 1. Check grounding before trouble checking.
- 2. Be careful of the high voltage circuit.
- 3. Discharge the high voltage capacitor.
- 4. When checking the continuity of the switches, fuse or high voltage transformer, disconnect one lead wire from these parts and check continuity with the AC plug removed.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

NOTE: When electric parts are checked, be sure the power cord is not inserted the wall outlet.

Check wire harness, wiring and connected of the terminals and power cord before check the parts listed below.

(TROUBLE 1) Oven does not operate at all; any inputs can not be accepted.

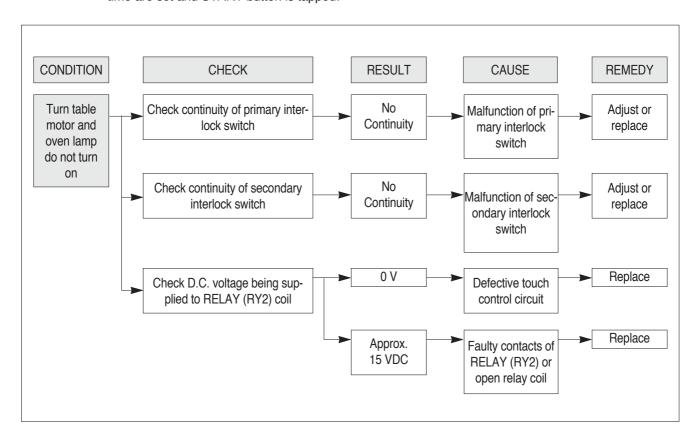




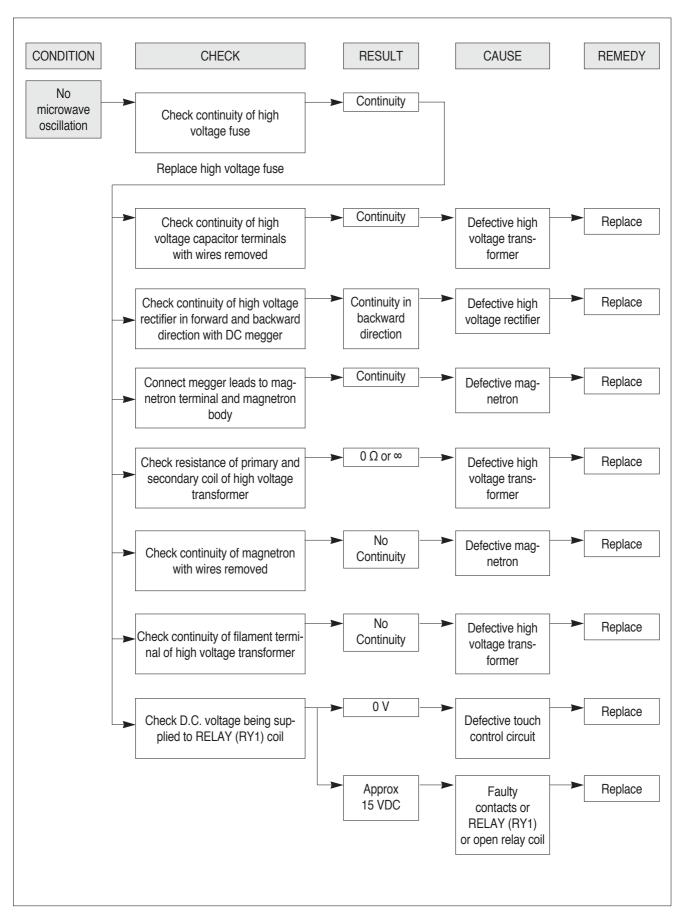
NOTE

All these switches must be replaced at the same time, please refer to "Interlock Mechanism And Adjustment".

(TROUBLE 2) Display shows all figures selected, but oven does not start cooking, even though desired program and time are set and START button is tapped.

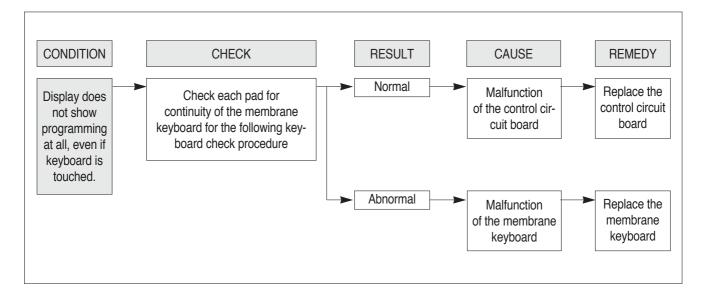


(TROUBLE 3) No microwave oscillation even though fan motor rotates.



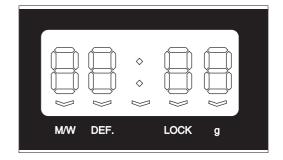
(TROUBLE 4) The following visual conditions indicate a probable defective touch control circuit

- 1. Incomplete segments,
 - 1) Segments missing.
 - 2) Partical segments missing.
 - 3) Digit flickering other than normal display slight flickering.
 - 4) ":0" does not display when power is on.
- 2. A distinct change in the display are not on when they numbers is the display.
- 3. One or more digits in the display are not on when they should be.
- 4. Display indicates a number different from one touched.
- 5. Specific numbers (for example 2 or 3) will not display when the panel is touched.
- 6. Display does not count down or up with time cooking or clock operation.
- 7. Oven is programmable and cooks normally but no display shows.
- 8. Display obviously jumps in time while counting down.
- 9. Display counts down noticeably too fast while cooking.
- 10. Display does not show the time of day when the STOP/CLEAR button is pushed. (in case of setting the present time)
- 11. Oven lamp and turntable motor do not stop although cooking is finished. Check if the RELAY 2 contacts close. If they close, replace P.C.B assembly.



NOTE

Before following the particular steps listed above in the troubleshooting guide for the failure of membrane keyboard, please check for the continuity of each wire-harness between the membrane keyboard and P.C.B. assembly.



1. MEASUREMENT OF THE MICROWAVE POWER OUTPUT

Microwave output power can be checked by indirectly measuring the temperature rise of a certain amount of water exposed to the microwave as directed below.

PROCEDURE

- Microwave power output measurement is made with the microwave oven supplied at rated voltage and operated at its maximum microwave power setting with a load of 1000±5cc 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 190 mm.
- 3. The oven and the empty vessel are at ambient temperature prior to the start of the test.

The initial temperature of the water is 10±2°C (50±3.6°F)

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 shelf, which is in the lowest normal position.

- 4. Microwave power is switched on.
- 5. Heating time should be exactly **A** seconds. (Refer to table as following)

Heating time is measured while the microwave generator is operating at full power.

The filament heat-up time for magnetron is not included.

- 6. The initial and final temperature of water is selected so that the maximum difference between the ambient and final water temperature is 5K.
- 7. The microwave power output P in watts is calculated from the following formula:



- △T is difference between initial and ending temperature.
- t is the heating time.

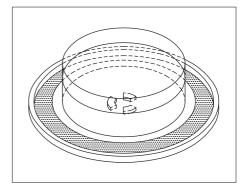
The power measured should be B (Refer to SPECIFICATIONS)W±10.0%.

CAUTION:

- 1. Water load should be measured exactly to 1 liter.
- 2. Input power voltage should be exactly specified voltage(Refer to SPECIFICATIONS).
- 3. Ambient temperature should be 20±2°C(68±3.6°F)

Heating time for power output:

A(second)	70	64	60	56	52	49	47	44	42	40	38
B(W)	600	650	700	750	800	850	900	950	1000	1050	1100



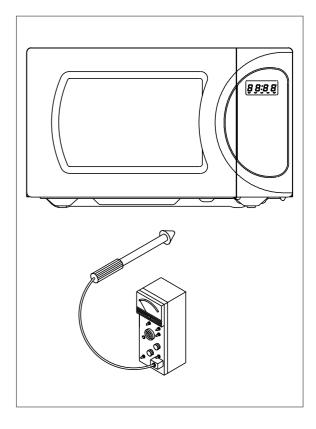
2. MICROWAVE RADIATION TEST

CAUTION:

- 1. Make sure to check the microwave leakage before and after repair of adjustment.
- 2. Always start measuring of an unknown field to assure safety for operating personnel from microwave energy.
- 3. Do not place your hands into any suspected microwave radiation field unless the safe density level is known.
- 4. Care should be taken not to place the eyes in direct line with the source of microwave energy.
- 5. Slowly approach the unit under test until the radiometer reads an appreciable microwave leakage from the unit under the test.

PROCEDURES

- 1. Prepare Microwave Energy Survey Meter, 600cc glass beaker, and glass thermometer 100°C(212°F).
- 2. Pour 275cc±15cc of tap water initially at 20±5°C(68±9°F) in the 600cc glass beaker with an inside diameter of approx. 95mm(3.5in.).
- 3. Place it at the center of the tray and set it in a cavity.
- 4. Close the door and operate the oven.
- 5. Measure the leakage by using Microwave Energy Survey Meter with dual ranges, set to 2450MHz.
 - 1) Measured radiation leakage must not exceed the value prescribed below. Leakage for a fully assembled oven with door normally closed must be less than 4mW/cm².
 - 2) When measuring the leakage, always use the 5cm(2in.) space cone with probe. Hold the probe perpendicular to the cabinet and door. Place the space cone of the probe on the door, cabinet, door seem, door viewing screen, the exhaust air vents and the suction air vents.
 - 3) Measuring should be in a counter-clockwise direction at a rate of 1 in./sec. If the leakage of the cabinet door is unknown, move the probe more slowly.
 - 4) When measuring near a corner of the door, keep the probe perpendicular to the areas making sure the probe end at the base of the cone does not get closer than 2 in. from any metal. If it does not, erroneous reading may result.



3. COMPONENT TEST PROCEDURE

- · High voltage is present at the high voltage terminal of the high voltage transformer during any cooking cycle.
- It is neither necessary nor advisable to attempt measurement of the high voltage.
- Before touching any oven components or wiring, always unplug the oven from its power source and discharge the capacitor.

1. High voltage transformer

- (1) Remove connections from the transformer terminals and check continuity.
- (2) Normal readings should be as follows:

2. High voltage capacitor

- (1) Check continuity of capacitor with meter on the highest OHM scale.
- (2) A normal capacitor will show continuity for a short time, and then indicate 10MΩ once the capacitor is charged.
- (3) A shorted capacitor will show continuous continuity.
- (4) An open capacitor will show constant $10M\Omega$.
- (5) Resistance between each terminal and chassis should be infinite.

3. High voltage diode

- (1) Isolate the diode from the circuit by disconnecting the leads.
- (2) With the ohmmeter set on the highest resistance scale measure the resistance across the diode terminals. Reverse the meter leads and again observe the resistance reading.

Meter with 6V, 9V or higher voltage batteries should be used to check the front-back resistance of the diode, otherwise an infinite resistance may be read in both directions.

A normal diode's resistance will be infinite in one direction and several hundred $K\Omega$ in the other direction.

4. Magnetron

For complete magnetron diagnosis, refer to "Measurement of the Microwave Power Output".

Continuity checks can only indicate and open filament or a shorted magnetron.

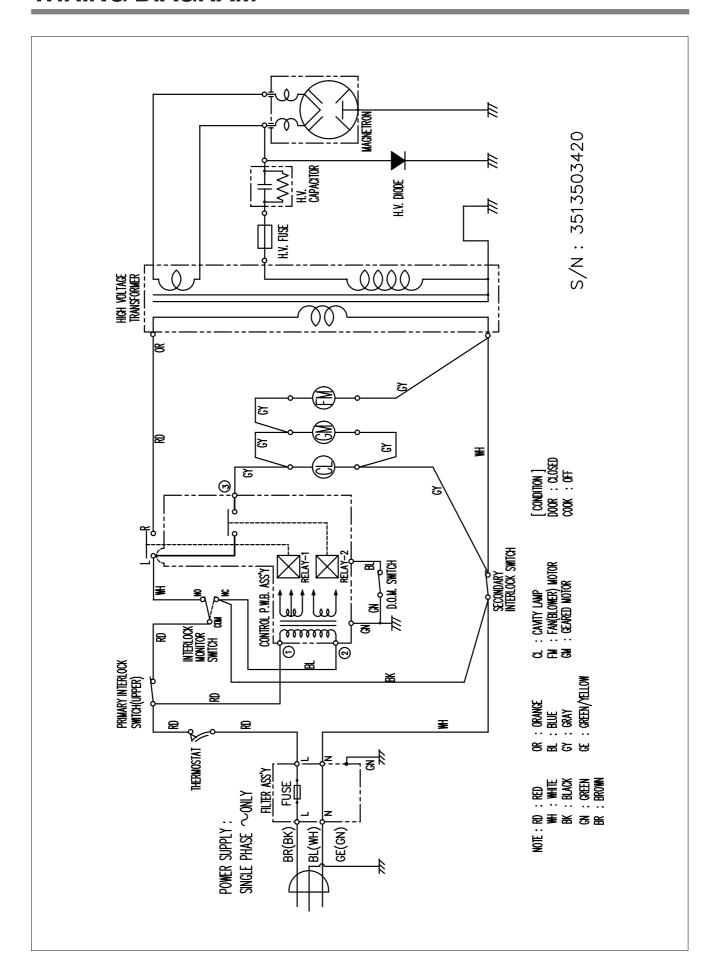
To diagnose for an open filament or a shorted magnetron.

- (1) Isolate magnetron from the circuit by disconnecting the leads.
- (2) A continuity check across magnetron filament terminals should indicate 0.1Ω or less.
- (3) A continuity check between each filament terminal and magnetron case should read open.

5. Fuse

If the fuse in the primary and monitor switch circuit is blown when the door is opened, check the primary and monitor switch before replacing the blown fuse.

In case the fuse is blown by an improper switch operation, replace the defective switch and fuse at the same time. Replace just the fuse if the switches operate normally.



PRINTED CIRCUIT BOARD

1. CIRCUIT CHECK PROCEDURE

- 1. Low Voltage Transformer check
- The low voltage transformer is located on the P.C.B.
- Measuring condition: input voltage: 230V/Frequency: 50Hz

Terminal Voltage	LOAD	NO LOAD
5-6-7	AC 12.6 V	AC 14.7 V

NOTE:

- 1. Refer to Circuit Diagram (point 4).
- 2. Secondary side voltage of the low voltage transformer changes in proportion to fluctuation of power source voltage.
- 3. The allowable tolerance of the secondary voltage is within \pm 5% of nominal voltage.

2. Voltage check

Key check point

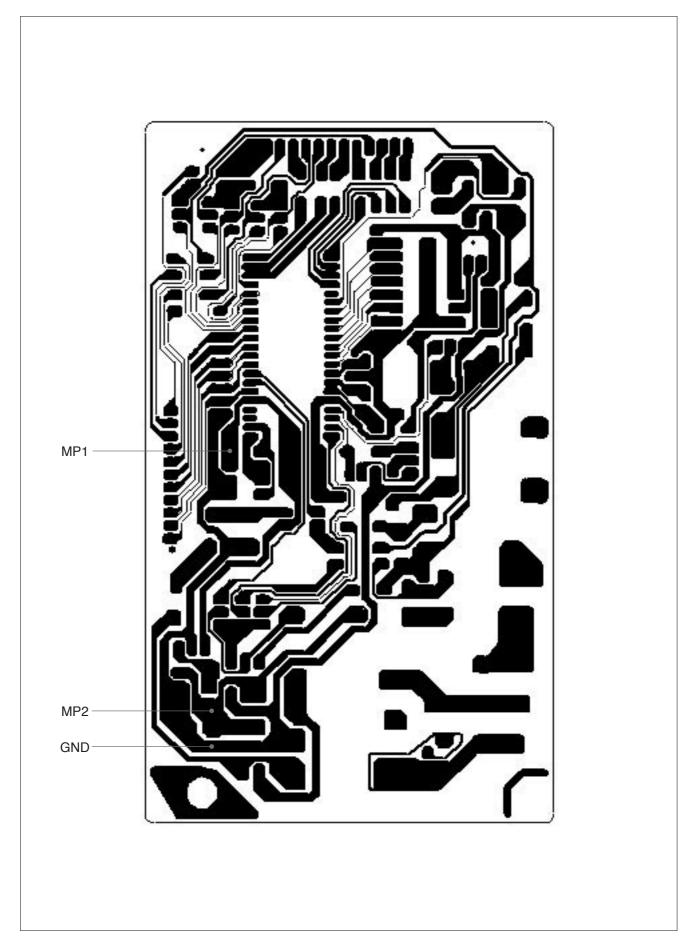
NO	CHECK POINT	REMARK		
1	IC 1 PIN 5	5 VDC		
2	IC 1 PIN 8	5V T:20ms(50Hz)		
3	IC 1 PIN 35 OR PIN 36	5V T:250ns(4MHz)		

· Check method

NO	MEASURE POINT	WAVE FORM	REMEDY	REMARK
1	MP1	DC 5V±0.25V	Replace VL1, EC1	NO LOAD
2	MP2	DC 12V±2.0V	Replace EC2, D11, D13, D14	NO LOAD

NOTE:

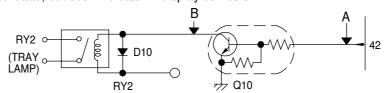
Each measure point must be measured with GND point.



Measure Point

3. When there is no microwave oscillation

1) When touching **START** pad, oven lamp does not turn on. Fan motor does not rotate, but cook indicator in display comes on.

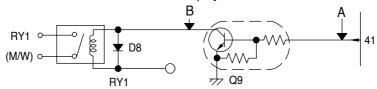


- Check method

STATE	Α	В
RELAY 2 ON	5VDC	GND
RELAY 2 OFF	GND	12VDC

2) When touching START pad, oven lamp turns on.

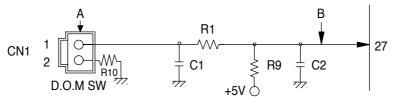
Fan motor and turntable rotate and cook indicator in display comes on.



- Check method

STATE	Α	В
RELAY 1 ON	5VDC	GND
RELAY 1 OFF	GND	12VDC

4. When the door is opened during operation, the count down timer does not stop.



-Check method

STATE	Α	В
1) DOOR OPEN	OPEN	5VDC
2) DOOR CLOSED	CLOSE	GND

CHECK NO	METHOD	REMEDY
1	Check the stage (ON, OFF) of the door open monitor switch by resistance measurement.	Replace door open monitor switch.

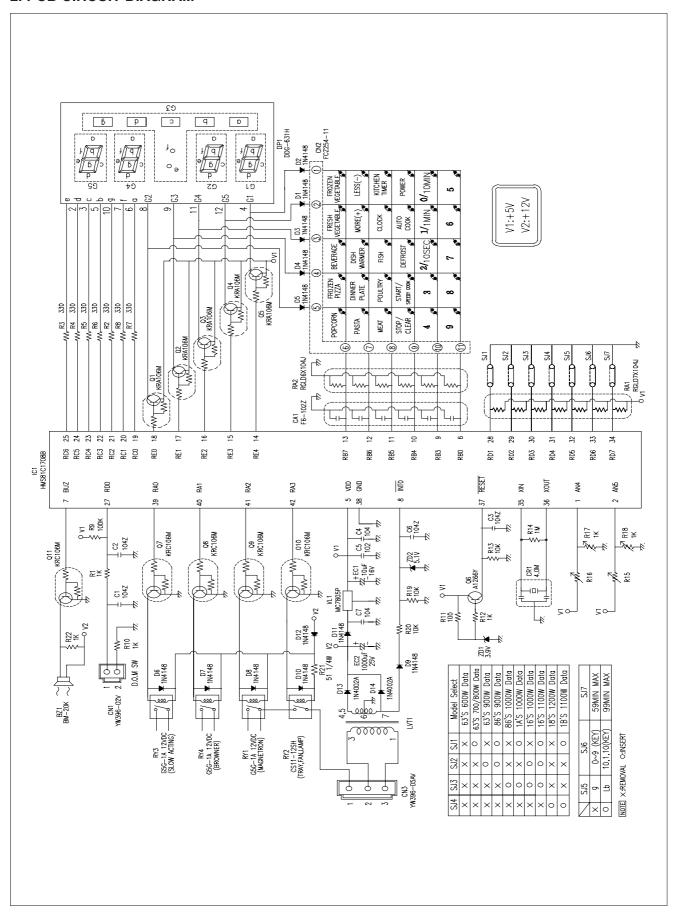
5. When the digital clock does not operate properly.

→Refer to Circuit Diagram.

POINT	WAVE FORM
IC 1 PIN 8	5V T:20ms(50Hz)

^{*} If clock does not keep exact time, you must check resistor R20 and zener diode ZD2.

2. PCB CIRCUIT DIAGRAM



3. PCB LOCATION NO.

NO	NAME	SYMBOL	SPECIFICATION	PART CODE	Q'TY
1	BUZZER	BZ1	BM-20K	3515600100	1
2	C ARRAY	CA1	7P(6) 1000PF M 50V	CN6XB-102M	1
3	CAPACITOR ELEC	EC1	50V RS 10UF	CEXE1H100A	1
4	CAPACITOR ELEC	EC2	25V RSS 1000MF	CEXF1E102V	1
5	CONNECTOR WAFER	CN1	YW396-02V	3519150520	1
6	CONNECTOR WAFER	CN2	FCZ 254-11	441M367160	1
7	CONNECTOR WAFER	CN3	YW396-05AV	3519150510	1
8	DIODE RECTIFY	D1~5, D8~D12	1N4148	DZN4148	10
9	DIODE RECTIFY	D13,14	KN4004A	DZN4004A	2
10	DIODE ZENER	ZD1	UZ- 3.3BSB 1/2W	DZUZ3R3BSB	1
11	DIODE ZENER	ZD2	UZ- 5.1BSB 1/2W	DZUZ5R1BSB	1
12	LED DISPLAY	DP1	ELF-496GWB	DDDG631H	1
13	PCB MAIN	M158-1	81.5X139.9	3514315411	1
14	R ARRAY	RA2	8P(7) 1/8 100K OHM J	RA-88X104J	1
15	R ARRAY	RA1	7P(6) 1/8 100K OHM J	RA-87X104J	1
16	RESISTOR	R2~8	1/6W 330 5%	RD-AZ331J-	7
17	RESISTOR	R1,10,12,17,18,22	1/6W 1K 5%	RD-AZ102J-	6
18	RESISTOR	R9	1/6W 100K 5%	RD-AZ104J-	1
19	RESISTOR	R11	1/6W 200 5%	RD-AZ201J-	1
20	RESISTOR	R13,R19,R20	1/6W 10K 5%	RD-AZ103J-	3
21	RESISTOR	R14	1/6W 1M 5%	RD-AZ105J-	1
22	RESISTOR	R21	1/4W 51 5%	RD-4Z510J-	1
23	RESONATOR CERA	CR1	CRT 4.00MS	5P4R00MTS-	1
24	IC REGULATOR	VL1	MC7805C	1CPMC7805C	1
25	TRANSISTOR	Q1~5	KRA106M	TZRA106M	5
26	TRANSISTOR	Q9~11	KRC106M	TZRC106M	3
27	TRANSISTOR	Q6	KTA-1266Y	TZTA1266Y-	1
28	CAPACITOR CERA	C5	102 50V Z AXIAL	CCZB1H102K	1
29	CAPACITOR CERA	C1~4,C6~7	104 50V Z AXIAL	CCZF1H104Z	6
30	TRANS POWER	LVT1	DMR-631FS EU	5EPK035303	1
31	WIRE COPPER	J1~J10,J13,J14	1/0.52 TIN COATING	85801052GY	12
32	WIRE COPPER	J11,J12	1/0.52 TIN COATING	85801053GY	2
33	SW RELAY	RY2	CS11-12SH 1C 1P	5SC0101128	1
34	IC MICOM	IC1	HMS81C1708B-HN017-1	150S63MB00	1
35	WIRE COPPER	SJ3, SJ4, SJ6	1/0.52 TIN COATING	85801052GY	1
36	SW RELAY	RY1	G5G-1A DC12V	5SC0101121	1

EXPLODED VIEW AND PARTS LIST

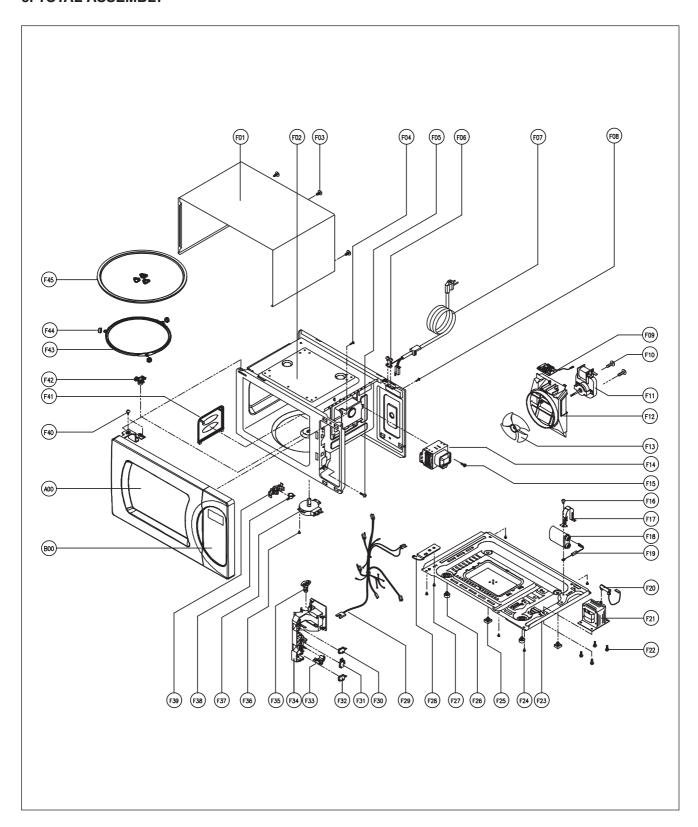
1. DOOR ASSEMBLY

Refer to Disassembly and assembly.

2. CONTROL PANEL ASSEMBLY

Refer to Disassembly and assembly.

3. TOTAL ASSEMBLY



✓ Caution: In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (http://svc.dwe.co.kr).

NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
A00	3511730310	DOOR AS	KOR-8CB75S	1
B00	PKCPSWF620	CONTROL-PANEL AS	KOR-6QBB5W	1
F01	3510805300	CABINET AS	KOR-61150S	1
F02	3516109970	CAVITY AS	KOR-8A0R5S	1
F03	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	3
F04	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	1
F05	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	1
F06	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	2
F07	35113AEQ0D	CORD POWER AS	3X0.75 70X70 100-RTML	1
F08	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	1
F09	3518607600	NOISE-FILTER	DWLF-M12 A	1
F10	7121402511	SCREW TAPPING	T2S PAN 4X25 MFZN	2
F11	3963512310	MOTOR SHADED POLE	230V 50HZ MW10CA-M02	1
F12	3512517000	GUIDE WIND	PP	1
F13	3511800300	FAN	PP+30%GLASS	1
F14	3518003700	MAGNETRON	2M218JFL 6CF	1
F15	3516004000	SCREW TAPTITE	T2 BOLT FLANGE 5X12 DACRO	1
F16	7272400811	SPECIAL SCREW	TT3 TRS 4X8 MFZN	1
F17	3513003200	HOLDER HV CAPACITOR	SECC T0.6	1
F18	3518302201	CAPACITOR HV	2100VAC 0.98UF #187 75MM	1
F19	3518400900	DIODE HV AS	HVR-1X-30B #187	1
F20	3518701100	FUSE HV	5KV 0.55A HV-41A55-02	1
F21	3518122310	TRANS HV	R1S58B(LA00)	1
F22	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	4
F23	3510311700	BASE	SBHG T0.6	1
F24	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	5
F25	3512101900	FOOT *B	PP	2
F26	3512102000	FOOT *F	PP	2
F27	7272400811	SPECIAL SCREW	TT3 TRS 4X8 MFZN	1
F28	3515201101	STOPPER HINGE *U	SCP-1 T2.5	1
F29	3512718720	HARNESS MAIN	KOR-8A0R5S	1
F30	4415A17352	SW MICRO	VP-533A-OF SPNO #187 200G	1
F31	4415A66910	SW MICRO	VP-531A-OF SPNC #187 200G	1
F32	3518571000	SWITCH PUSH	MP101C	1
F33	3513702620	LEVER LOCK	POM	1
F34	3513811750	LOCK	CHEIL(FH-44N)	1
F35	3513601600	LAMP	BL 240V 25W T25 C7A H187	1
F36	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	1
F37	3966031600	MOTOR SYNCRO	220/240V 50/60HZ ST-16 MN73MQAD A	1
F38	3518906400	THERMOSTAT	OFF:85 ON:75 #187 NB	1
F39	3513003410	HOLDER THERMOSTAT	PP(BK)	1
F40	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	2
F41	3511406220	COVER WAVE GUIDE	PP J640A WHITE	1
F42	3517400620	COUPLER	XAREC	1
F43	3512517300	GUIDE ROLLER	PP 5113MF6 A353B	1
F44	3514700710	ROLLER	TEFLON	3
F45	3517203600	TRAY	GLASS	1
	1		I .	1



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