

S/M No. : OC9N2T7001

Service Manual

Microwave Oven

Model: KOC-9N2T7S

KOC-9N2T7S24

KOC-9N3T7S

KOC-9N3T7R

KOC-9N3T7S24

✓ **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.

DAEWOO 
ELECTRONICS

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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 if 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.

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1. 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.

1. 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.
 - (1) inform the manufacturer, importer or assembler,
 - (2) repair the unit at no cost to the owner,
 - (3) attempt to ascertain the cause of the excessive leakage,
 - (4) 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 immediately.

IMPORTANT

The wire in this mains lead coloured in accordance with the following code.

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

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E , earth symbol or coloured green-and-yellow.

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

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

NOTE : This oven is designed for counter-top use only.

2. SPECIFICATIONS

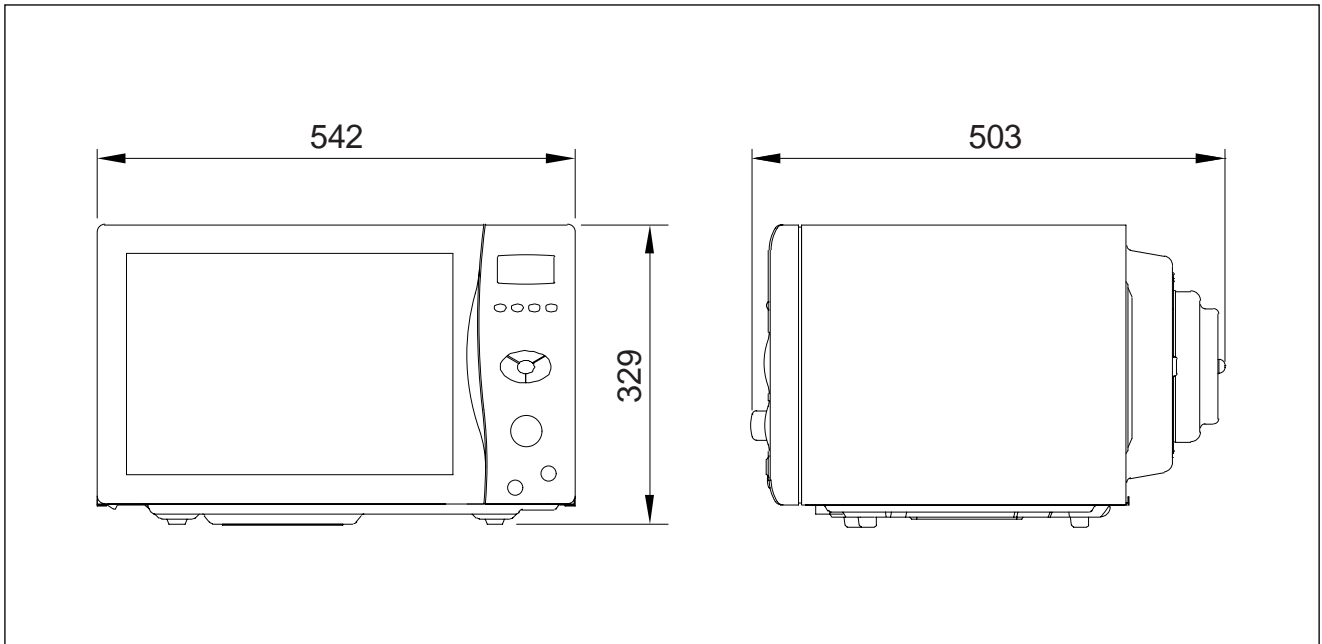
MODEL	KOC-9N2T7S, 9N2T7S24, 9N3T7S, 9N3T7S24	
POWER SUPPLY	230V~50HZ, SINGLE PHASE WITH EARTHING	
POWER CONSUMPTION	MICROWAVE	1450W
	GRILL	850W
	CONVECTION	2250W
	COMBINATION	2950W
MICROWAVE ENERGY OUTPUT	900W(IEC705)	
MICROWAVE FREQUENCY	2450MHz	
OUTSIDE DIMENSIONS (W X H X D)	542X329X503mm (21.3X13.0X19.8 in.)	
CAVITY DIMENSIONS (W X H X D)	350X230X355mm (13.8X9.1X14.0 in.)	
NET WEIGHT	APPROX. 18kg(39.6lbs.)	
TIMER	60 minutes	
FUNCTION SELECTIONS	MICROWAVE / GRILL / CONVECTION / COMBINATION	
POWER SELECTIONS	10 LEVELS	
CAVITY VOLUME	1.0 Cu. Ft	

MODEL	KOC-9N3T7R	
POWER SUPPLY	230V~50HZ, SINGLE PHASE WITH EARTHING	
POWER CONSUMPTION	MICROWAVE	1450W
	GRILL	850W
	CONVECTION	1450W
	COMBINATION	1450W
MICROWAVE ENERGY OUTPUT	900W(IEC705)	
MICROWAVE FREQUENCY	2450MHz	
OUTSIDE DIMENSIONS (W X H X D)	542X329X503mm (21.3X13.0X19.8 in.)	
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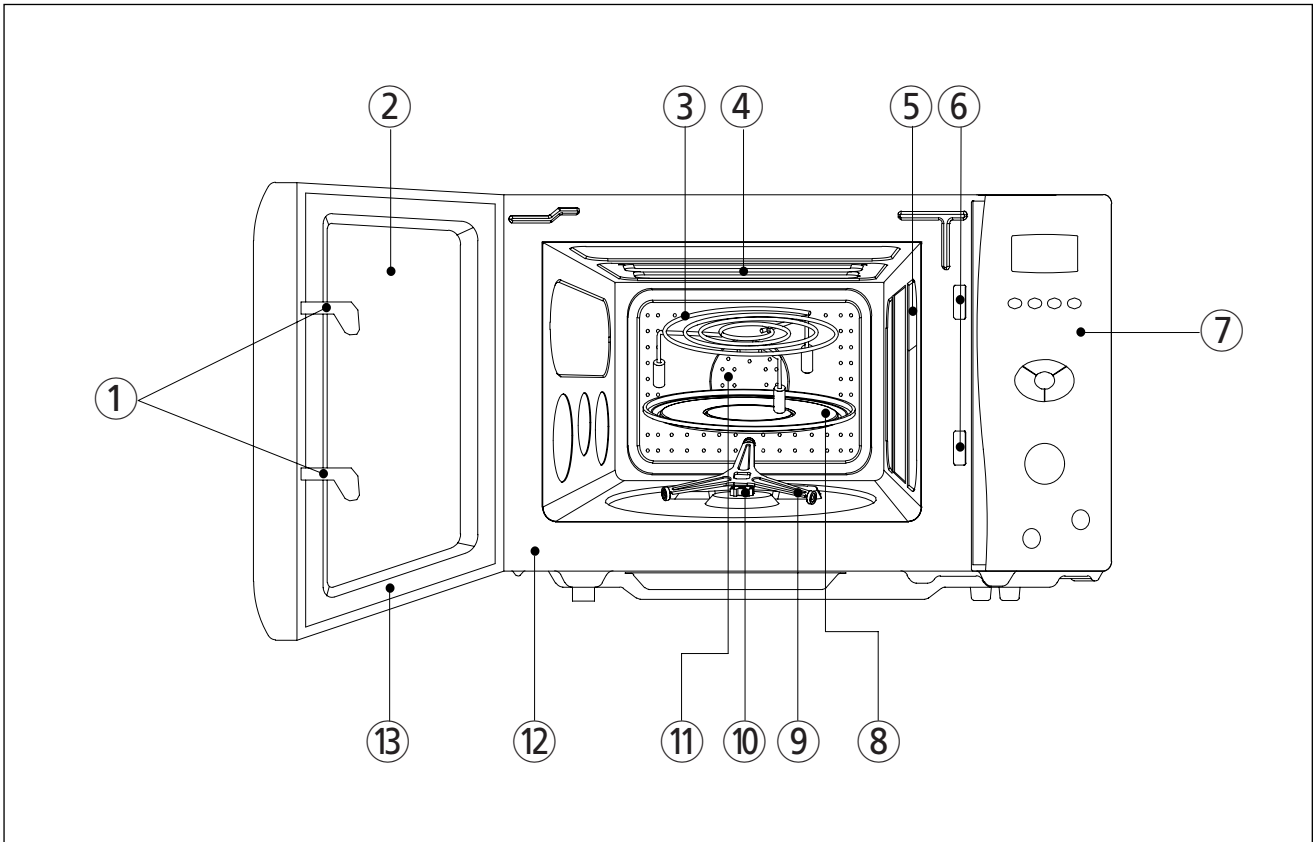
* Specifications are subject to change without notice.

3. 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, the magnetron will immediately stop operating.

2. DOOR VIEWING SCREEN

Allows viewing of food. The screen is designed so that light can pass through, but not the microwave.

3. METAL RACK

4. TOP HEATER

Turns on when convection, grill and combi cooking is selected.

5. OVEN LAMP

Automatically turns on during oven operating.

6. SAFETY INTERLOCK SYSTEM

7. CONTROL PANEL

8. TURNTABLE TRAY

Rotates during cooking and ensure even distribution of Microwaves.
It can also be used as a cooking utensil.

9. ROLLER GUIDE

This must always be used for cooking together with the turntable tray.

10. COUPLER

This fits over the shaft in the center of the ovens cavity floor. This is to remain in the oven for all cooking.

11. CONVECTION OUTLET & FAN

12. OVEN FRONT PLATE

13. DOOR SEAL

Door seal maintains the microwave energy within the oven cavity and prevents microwave leakage.

4. 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 or 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 15(KOC-922T9S/923T9S) 12(KOC-922T9R/923T9R) amperes, 230V, 50Hz.
- Power supply cord is about 1.2 meters long.
- The voltage used 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.

EARTHING INSTRUCTIONS

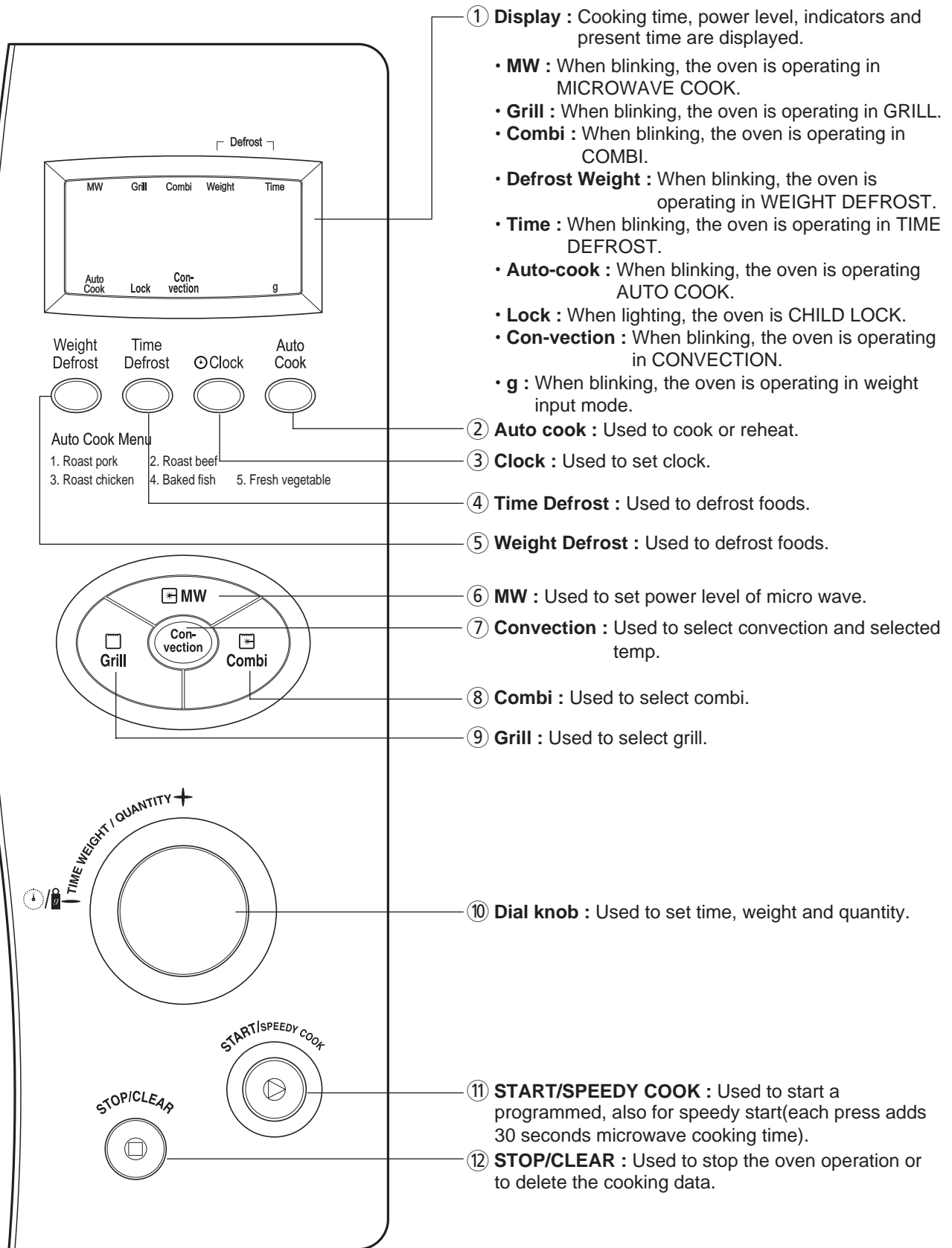
This appliance must be earthed. In the event of an electrical short circuit, earthing reduces the risk of the electric shock by providing an escape wire for the electric current. This appliance is equipped with a cord having a earthing wire with a earthing plug. The plug must be plugged into an outlet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

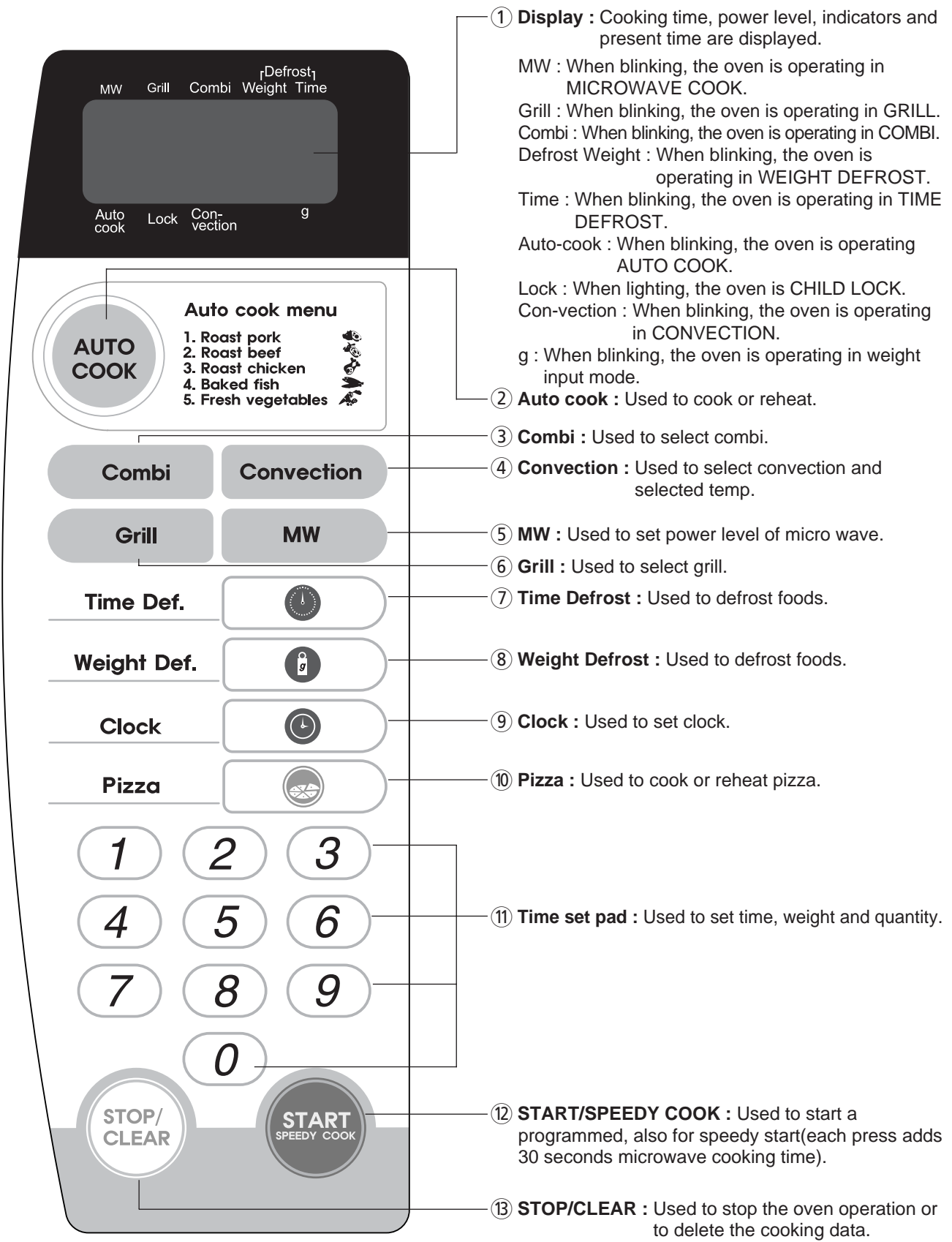
WARNING

Improper use of the earthing plug can result in a risk of electric shock.
Consult a qualified electrician or serviceman 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.

5. CONTROL PANEL

KOC-9N2T





- ① **Display** : Cooking time, power level, indicators and present time are displayed.
 MW : When blinking, the oven is operating in MICROWAVE COOK.
 Grill : When blinking, the oven is operating in GRILL.
 Combi : When blinking, the oven is operating in COMBI.
 Defrost Weight : When blinking, the oven is operating in WEIGHT DEFROST.
 Time : When blinking, the oven is operating in TIME DEFROST.
 Auto-cook : When blinking, the oven is operating AUTO COOK.
 Lock : When lighting, the oven is CHILD LOCK.
 Con-vection : When blinking, the oven is operating in CONVECTION.
 g : When blinking, the oven is operating in weight input mode.
- ② **Auto cook** : Used to cook or reheat.
- ③ **Combi** : Used to select combi.
- ④ **Convection** : Used to select convection and selected temp.
- ⑤ **MW** : Used to set power level of micro wave.
- ⑥ **Grill** : Used to select grill.
- ⑦ **Time Defrost** : Used to defrost foods.
- ⑧ **Weight Defrost** : Used to defrost foods.
- ⑨ **Clock** : Used to set clock.
- ⑩ **Pizza** : Used to cook or reheat pizza.
- ⑪ **Time set pad** : Used to set time, weight and quantity.
- ⑫ **START/SPEEDY COOK** : Used to start a programmed, also for speedy start(each press adds 30 seconds microwave cooking time).
- ⑬ **STOP/CLEAR** : Used to stop the oven operation or to delete the cooking data.

6. DISASSEMBLY AND ASSEMBLY

- Cautions to be observed when trouble shooting.

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 wear 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 grounded.

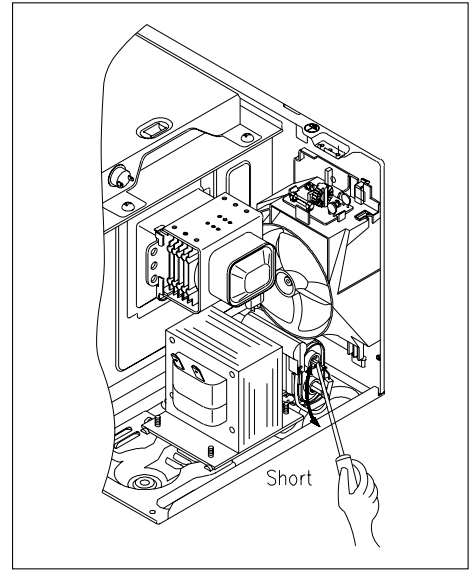
It is imperative, therefore, to make sure it is grounded properly before beginning repair work.

(2) Warning about the electric charge in the high voltage capacitor.

For about 30 seconds after the operation has stopped, 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 20A 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.

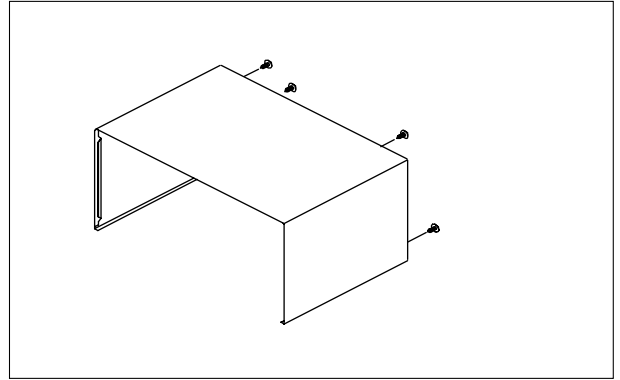


CAUTION : Service personnel should remove their watches whenever working close to or replacing the magnetron.

WARNING : When servicing the appliance, take care when 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.

1. To remove cabinet

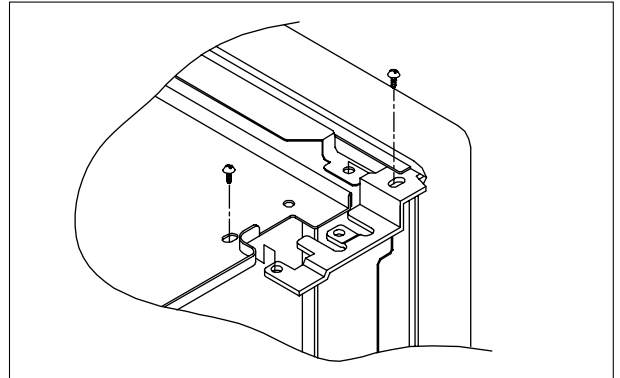
- 1) Remove four screws on cabinet back.
- 2) Push the cabinet backward.



2. To remove door assembly

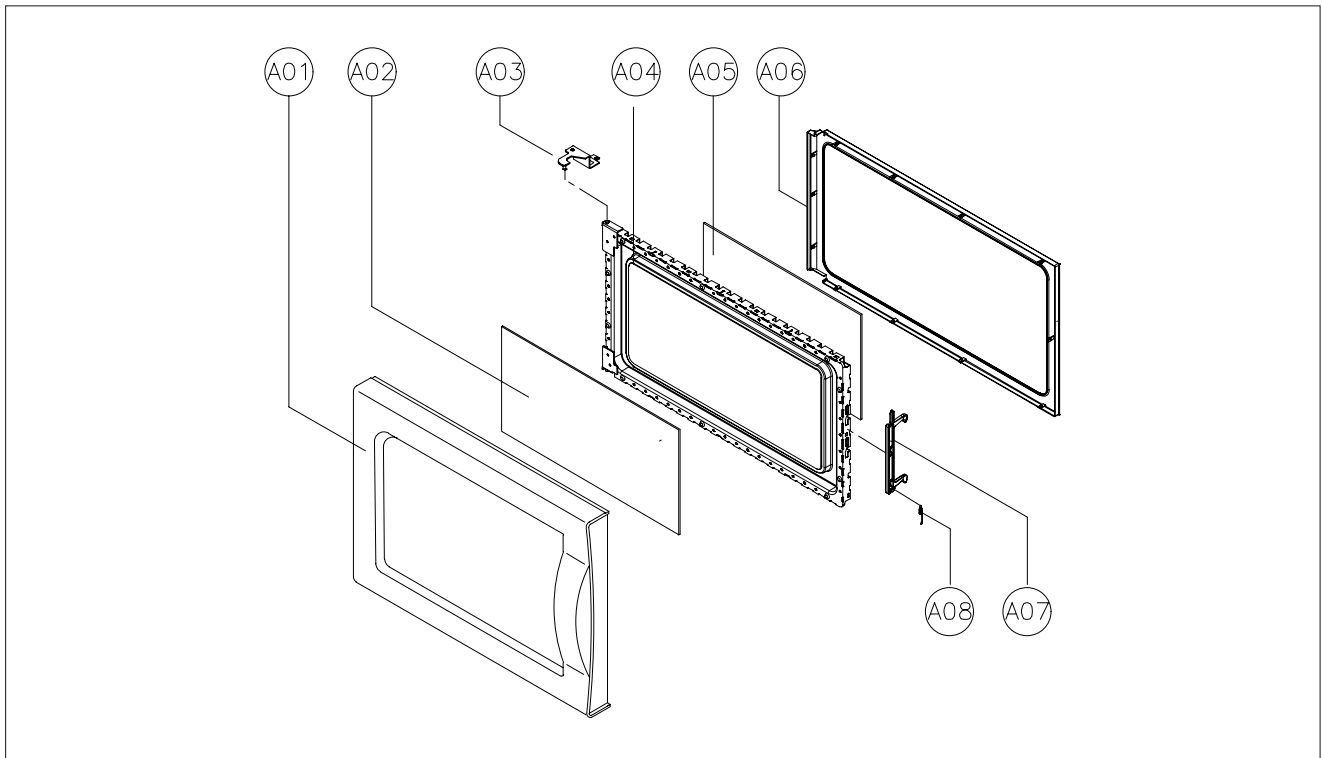
- 1) Remove two screws which secure the stopper hinge top.
- 2) Remove the door assembly from top plate of cavity.
- 3) Reverse the above for assembly.

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



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3. To remove door parts.

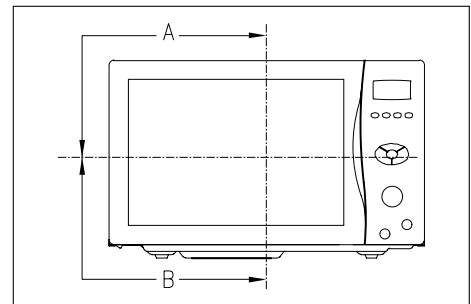


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
A01	3512204830	FRAME DOOR	ABS SR-0320	1	
A02	3517007140	BARRIER-SCREEN *O	GLASS T3.2	1	KOC-9N2T7S, 9N3T7S, 9N3T7R
	3517007150		GLASS T3.2 MIRROR	1	KOC-9N2T7S24, 9N3T7S24
A03	3515304800	SUPPORTER HINGE*T	SCP-1 T2.0	1	
A04	3516602200	DOOR PLATE	SBHG-3A T0.7	1	
A05	3517007000	BARRIER-SCREEN*I	TEMP GLASS T2.0	1	
A06	3512302400	GASKET DOOR	PBT	1	
A07	3513101200	HOOK	POM	1	
A08	3515101800	SPRING HOOK	PW1	1	

-
- (1) Remove the gasket door from door plate.
 - (2) Remove the door frame from door plate.
 - (3) Remove the stopper hinge top from door plate.
 - (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.

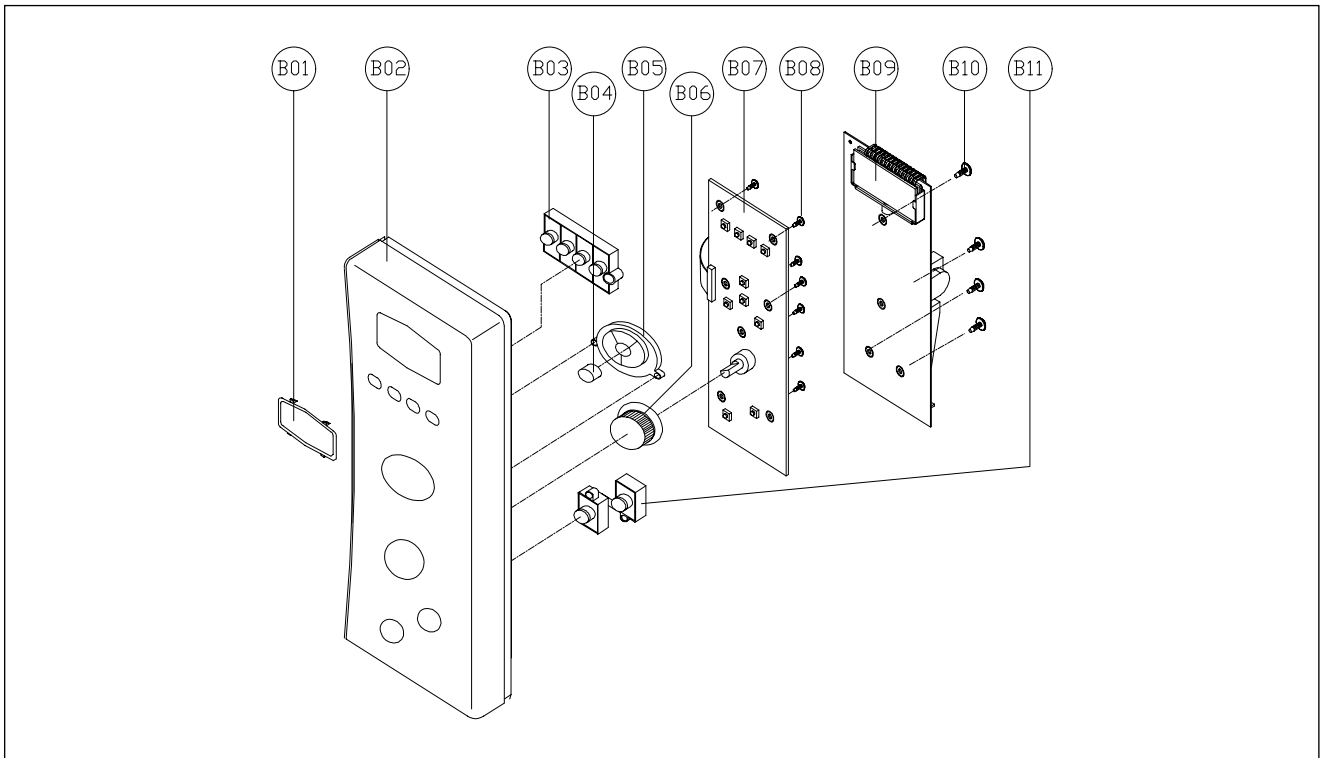


NOTE : A small gap may be acceptable if the microwave leakage does not exceed 4mW/cm².

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5. To remove control panel parts.

KOC-9N2T

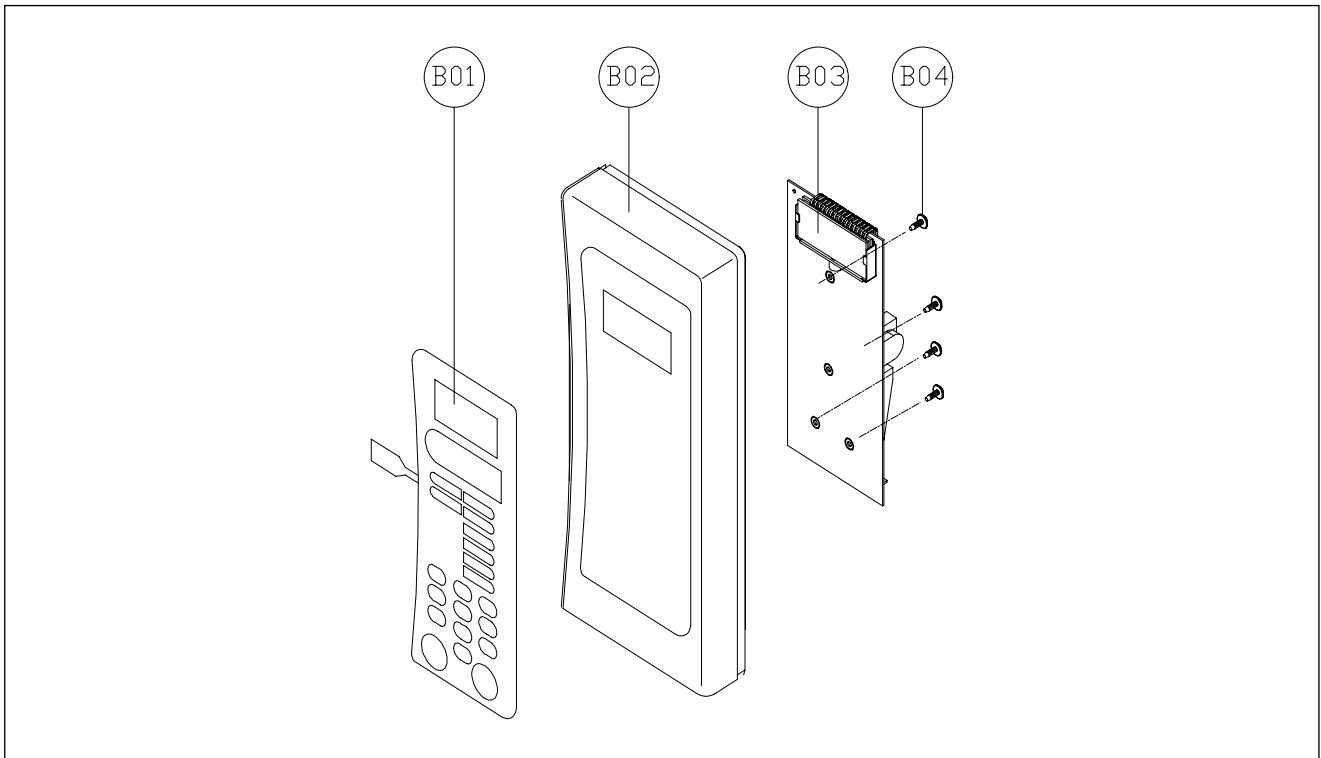


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B01	3515501320	WINDOW DISPLAY	SAN	1	
B02	3516725230	CONTROL-PANEL	ABS SR-0320	1	
B03	3516911900	BUTTON FUNCTION-A	ABS SR-0760D SPRAY	1	
B04	3516909970	BUTTON FUNCTION-C	ABS SR-175 SG-0760D SPRAY	1	
B05	3516909960	BUTTON FUNCTION-B	ABS SR-175 SG-0760D SPRAY	1	
B06	3513406600	KNOB VOLUME	ABS SR-175 SG-0760D	1	
B07	PKMPMSGA00	PCB MAIN MANUAL AS	KOC-9N2T7S	1	
B08	7121301011	SCREW TAPPING	T2S PAN 3X10 MFZN	7	
B09	PKBPMSGA00	PCB BUTTON MANUAL AS	KOC-9N2T7S	1	
B10	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	4	
B11	3516909980	BUTTON FUNCTION-D	ABS SG-175 SG-0760D SPRAY	1	

- (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(B10) which secure the PCB Main ASS'Y.
- (3) Pull out the Main PCB assembly(B09).
- (4) Remove seven screws(B08) which secure the PCB Sub ASS'Y.
- (5) Pull out the Sub PCB assembly(B07).
- (6) Pull out the Knob volume(B06) from the Sub PCB assembly.
- (7) Pull out buttons from the control panel.
- (8) Pull out Window display(B01) from the control panel.
- (9) Reverse the above steps for reassembly.

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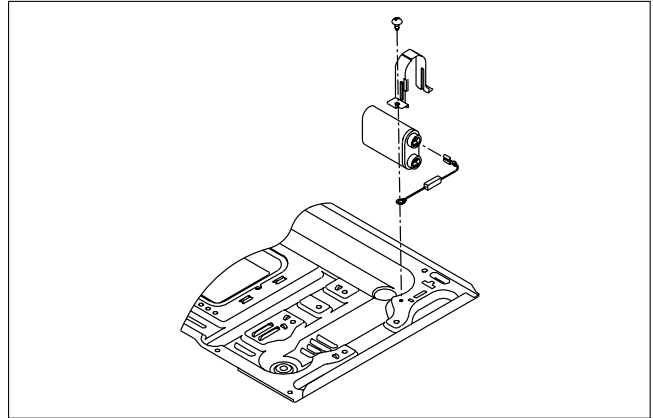


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B01	3518524300	SWITCH MEMBRANE	KOC-923T9S	1	
B02	3516725250	CONTROL-PANEL	ABS SR-0320	1	
B03	PKMPMSAS20	PCB MAIN MANUAL AS	KOC-9N3T7S	1	KOC-9N3T7S, 9N3T7S24
	PKMPMSAS30		KOC-9N3T7R	1	KOC-9N3T7R
B04	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	4	

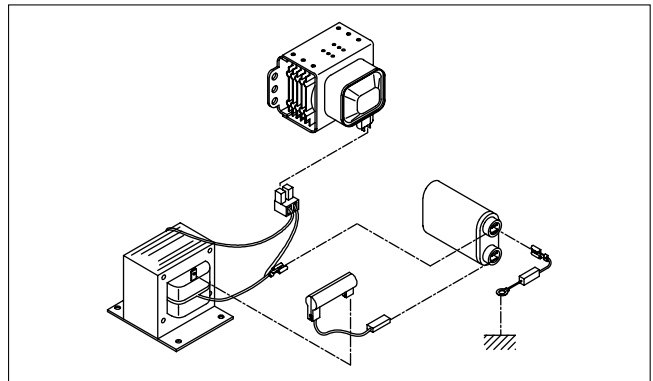
- (1) Remove the screw which secure the control panel, push up two snap fits and draw forward the control panel assembly.
- (2) Remove four screws which secure the PCB assembly to control panel.
- (3) Disconnect membrane tail from the connector of the PCB assembly.
- (4) Detach membrane from the control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

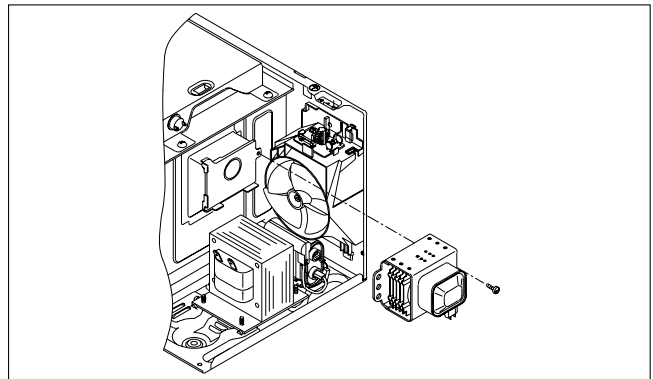


◆ High voltage circuit wiring

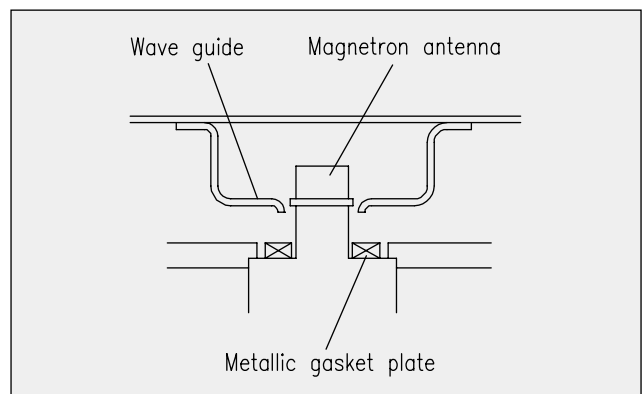
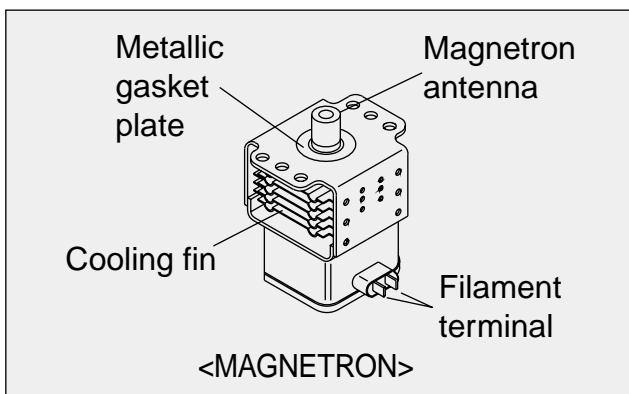


7. To remove magnetron.

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

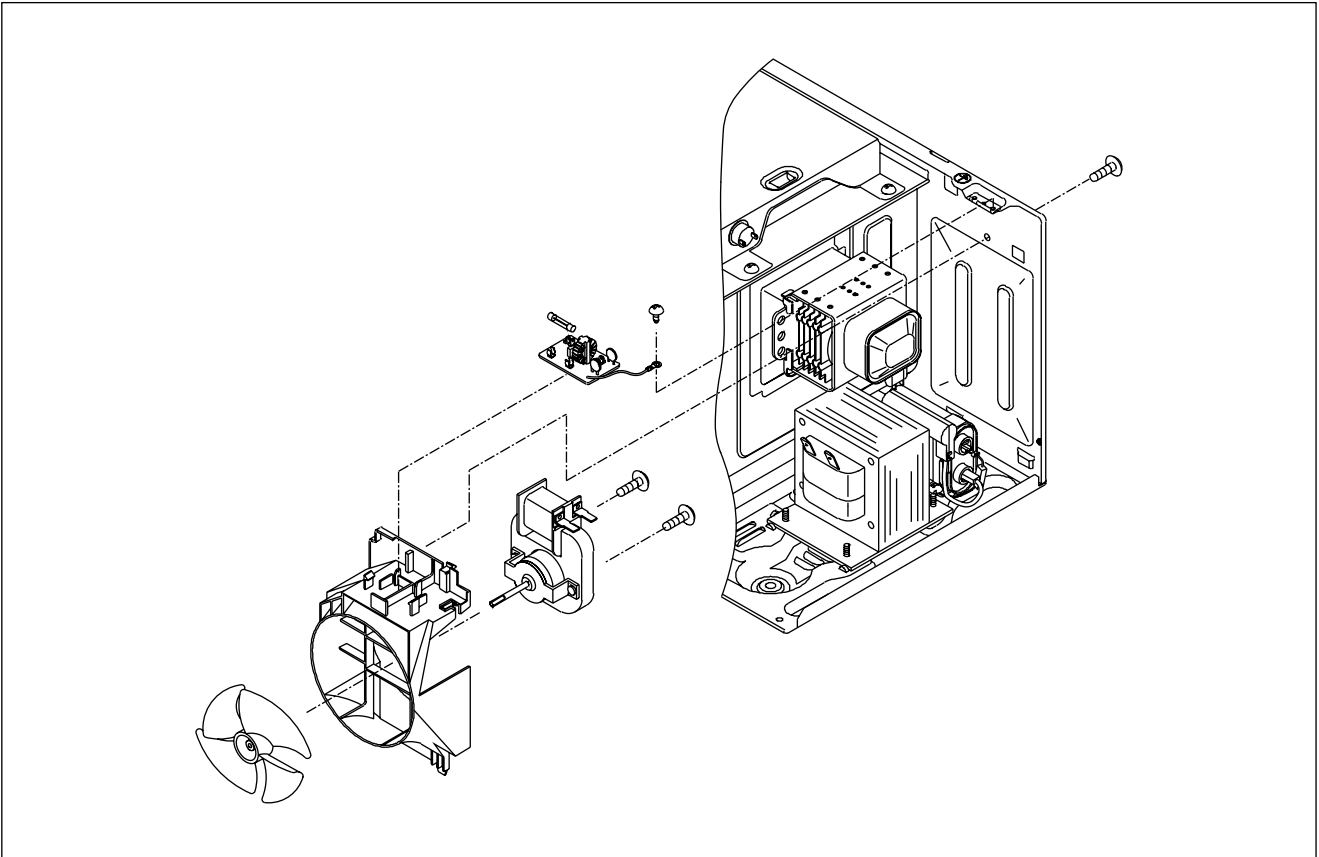


CAUTION : Never install the magnetron without the metallic gasket plate which is packed with each magnetron to prevent microwave leakage. Whenever repair work is carried out on magnetron, check the microwave leakage. It shall not exceed $4\text{mW}/\text{cm}^2$ for a fully assembled oven with door normally closed.



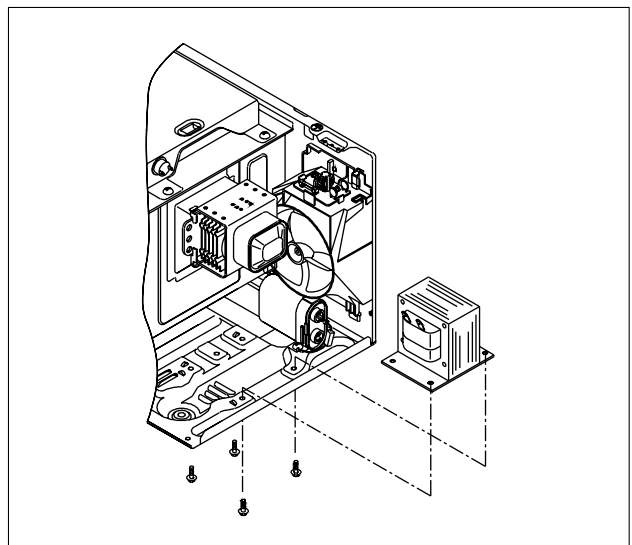
8. To remove wind guide assembly.

- 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.



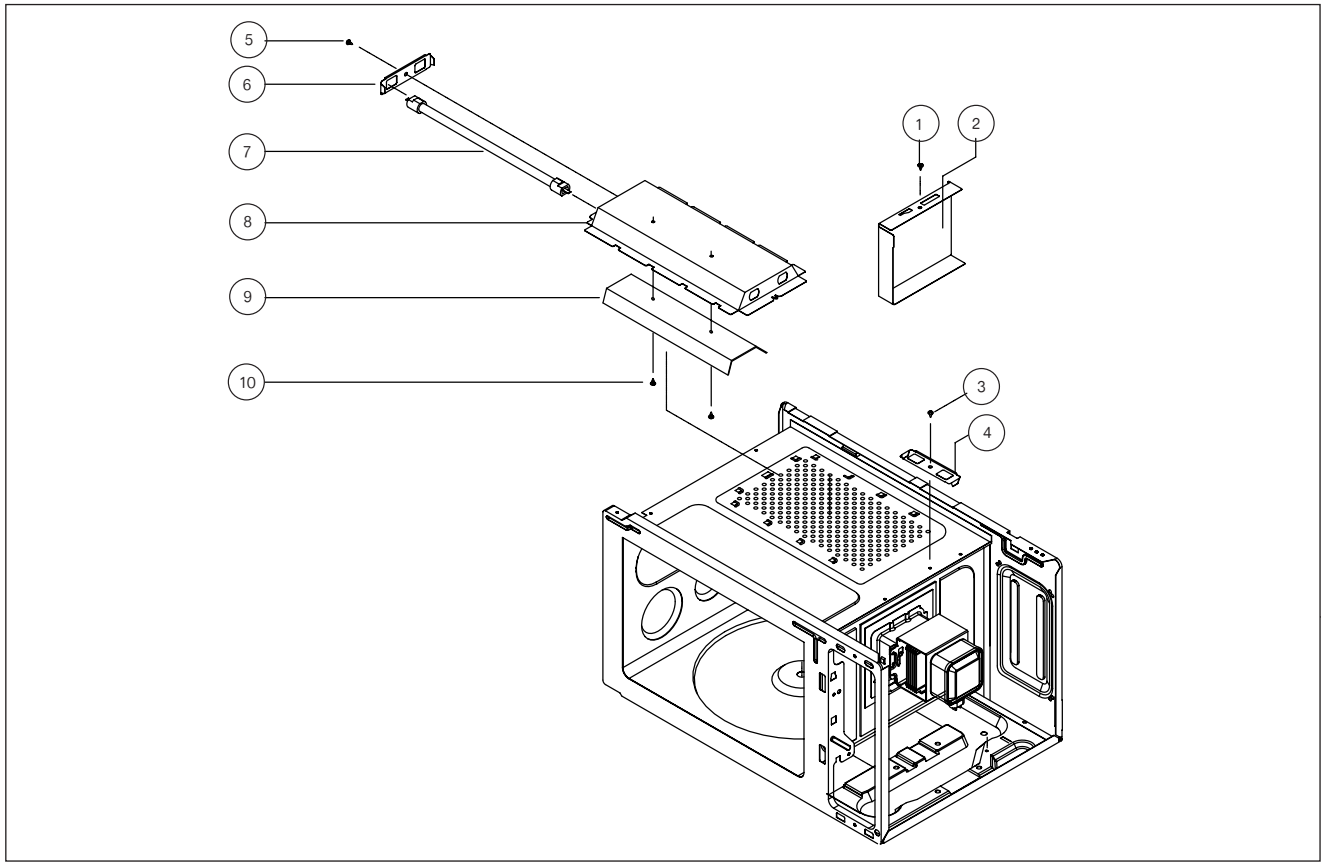
9. To remove H.V.transformer.

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



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10. To remove Top heater assembly parts.

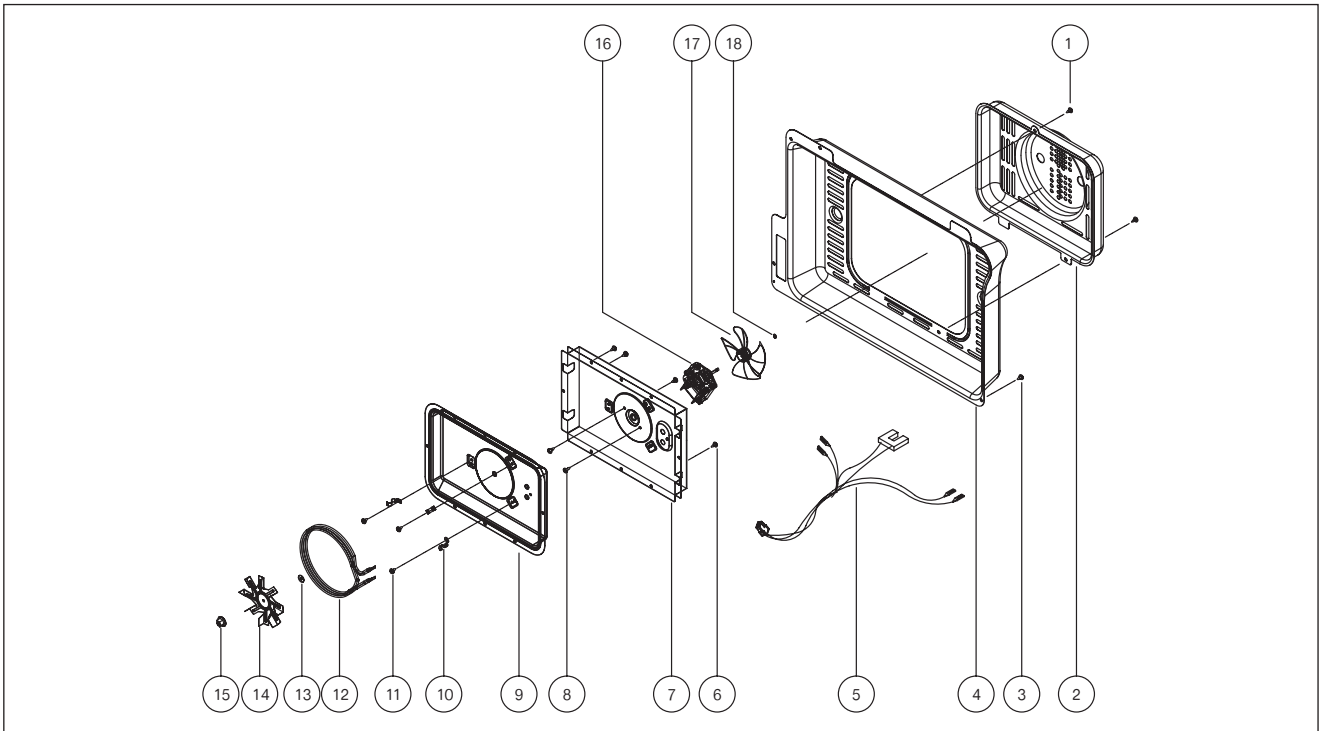


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
1	7112401011	SCREW TAPPING	T1 TRS 4 ~10 MFZN	1	
2	3512520500	GUIDE AIR OUTLET	SA1D	1	
3	7112401011	SCREW TAPPING	T1 TRS 4 ~10 MFZN	1	
4	3510607700	BRACKET HEATER *T	SA1D	1	
5	7S432X4081	SPECIAL SCREW	TT3 TRS 4 ~8 SE MFZN	1	
6	3510607700	BRACKET HEATER *T	SA1D	1	
7	3512805800	HEATER MIRACLON	230V 800W 270MM	1	
8	3511410300	COVER HEATER *T	SA1D	1	
9	3512804900	HEATER REFLECTOR	SUS 430	1	
10	7112401011	SCREW TAPPING	T1 TRS 4 ~10 MFZN	2	

- 1) Remove a screw ① and pull out Guide air outlet ②.
- 2) Remove a screw ③ and pull out Bracket heater *t ④.
- 3) Pull out the Top heater assembly.
- 4) Remove a screw ⑤, and pull out Bracket heater *t ⑥.
- 5) Remove two screws ⑩ and pull out Heater reflector ⑨.
- 6) Reverse the above steps for reassembly.

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11. To remove Rear heater assembly parts.

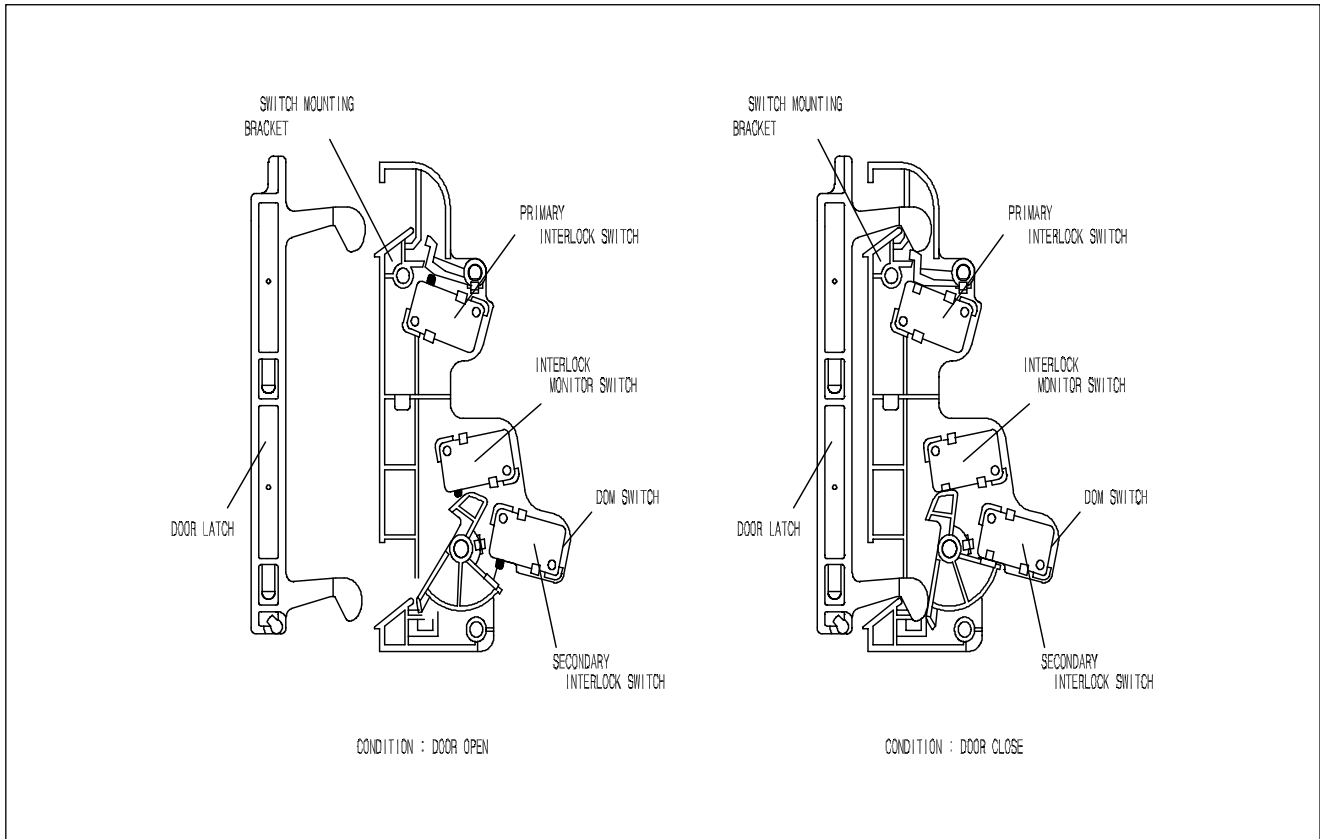


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
1	7112401011	SCREW TAPPING	T1 TRS 4 ~10 MFZN	2	
2	3511407300	COVER MOTOR *B	SA1D	1	
3	7112401011	SCREW TAPPING	T1 TRS 4 ~10 MFZN	1	
4	3511407900	COVER *B	SA1D	1	
5	3512767611	HARNESS CONVECTION	KOC-924T0S	1	
6	7112400811	SCREW TAPPING	T1 TRS 4 ~8 MFZN	4	
7	3513303400	INSULATOR HEATER *B	SBHG	1	
8	7601400811	SCREW TAPPING	PAN 4 ~8 PW MFZN	2	
9	3511409800	COVER HEATER *B	SAID	1	
10	3513002300	HOLDER HEATER	SUS430	3	
11	7113400814	SCREW TAPPING	T1 BIN 4 ~8 MFNI	3	
12	3512801800	HEATER	230V 1400W	1	
13	7400104011	WASHER PLAIN	PW-1-4 MFZN	1	
14	3511800700	FAN CONVECTION	SA1D	1	
15	7S627W40X1	SPECIAL SCREW	NUT FLANGE M4 MFZN	1	
16	3963514330	MOTOR SHADED POLE	230V 50HZ MW10CA-T02	1	
17	3511800900	FAN	PBT	1	
18	7402704600	RING C	CR-5 SK5	1	

- 1) Remove a screw ① and pull out Cover motor *B②.
- 2) Remove a screw ③ and pull out Cover *B④.
- 3) Pull out the Harness convection-B⑤.
- 4) Remove four screws⑥ and then pull out the Rear heater assembly.
- 5) Remove a Nut⑮ and the pull out the Fan convection⑭.
- 6) Remove three screws⑪ and then separate the Cover heater *B⑨ and the Insulator heater *B⑦.
- 7) Pull out the Heater⑫ from the Cover Heater *B⑨.
- 8) Remove two screw⑧ and then separate the Insulator heater *B⑦ and Motor shaded pole⑯.
- 9) Remove the C-Ring⑱ and then pull out the Fan⑰ from Motor shaft.
- 10) Reverse the above steps for reassembly.

7. 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 ON 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 OFF condition and presses the button of the secondary interlock switch to bring it under ON condition.

ADJUSTMENT :

Interlock monitor switch

When the door is closed, the interlock monitor switch should be opened before other switches are closed.

When the door is opened, the interlock monitor switch should be closed after other switches are opened.

(3) Adjustment steps

- Loosen the one mounting screw.
- Adjust interlock switch assembly position.
- Make sure that lock lever moves smoothly after adjustment is completed.
- Tighten completely two mounting screws.

NOTE :

Microwave emission test should be performed after adjusting interlock mechanism.

If the microwave emission exceed $4\text{mW}/\text{cm}^2$, readjust interlock mechanism.

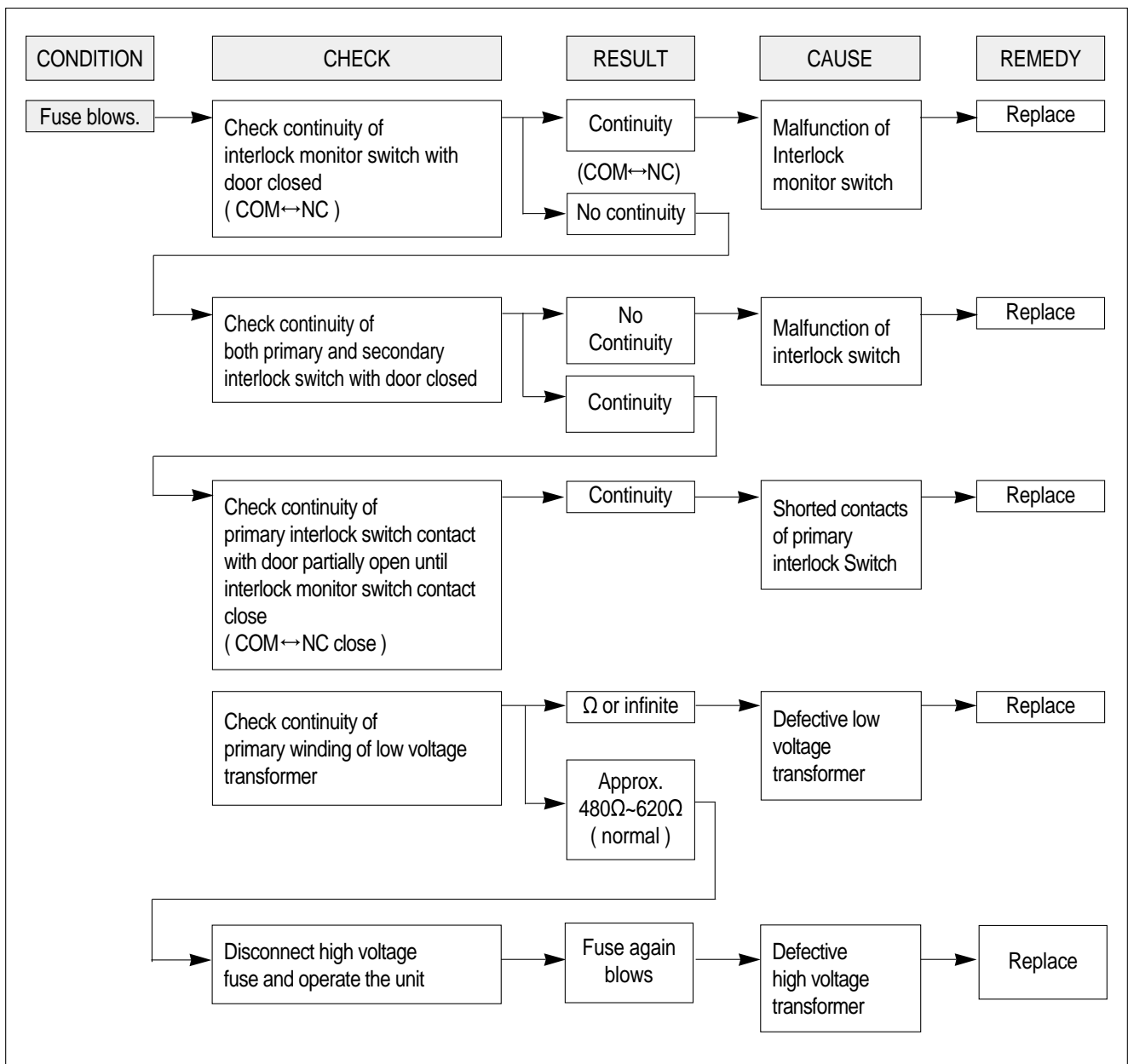
8. TROUBLE SHOOTING GUIDE

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

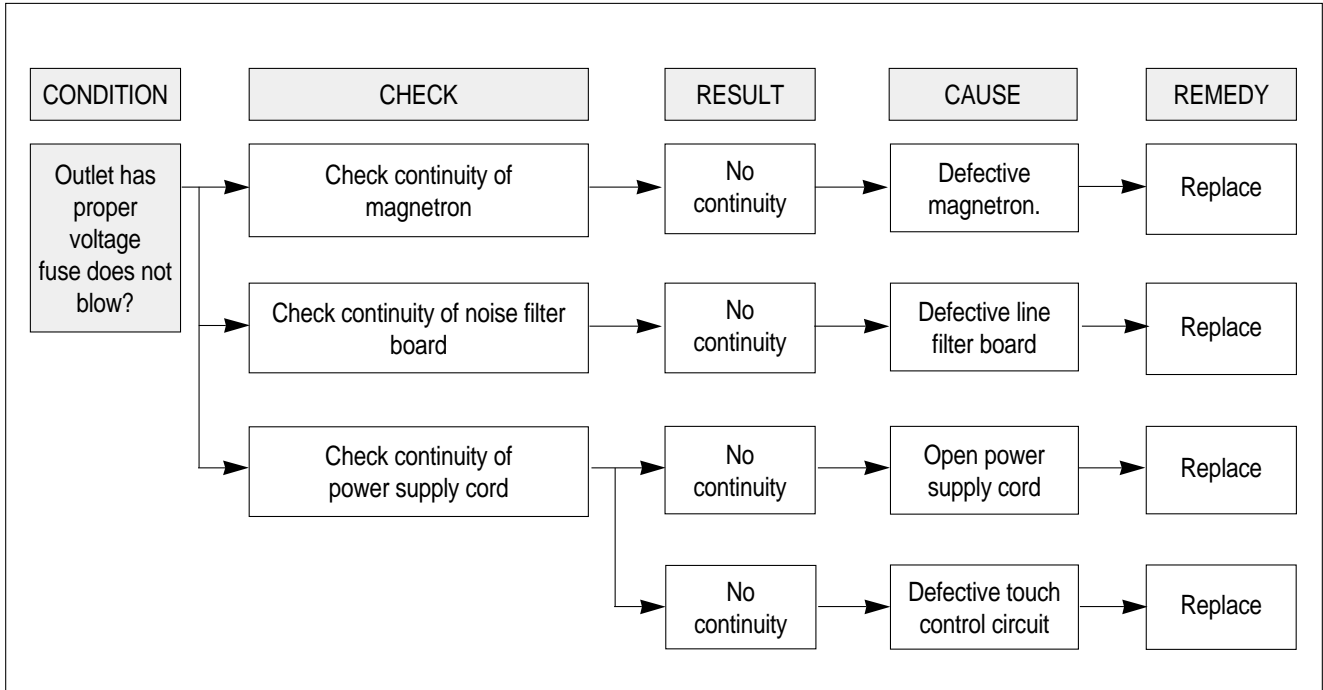
- 1) Check grounding before trouble checking.
- 2) Be careful of the high voltage circuit.
- 3) Discharge the high voltage capacitor.
- 4) When checking the continuity of the switches, fuse or high voltage transformer, disconnect one load wire from these parts and check continuity with the AC plug removed. 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 connection 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.



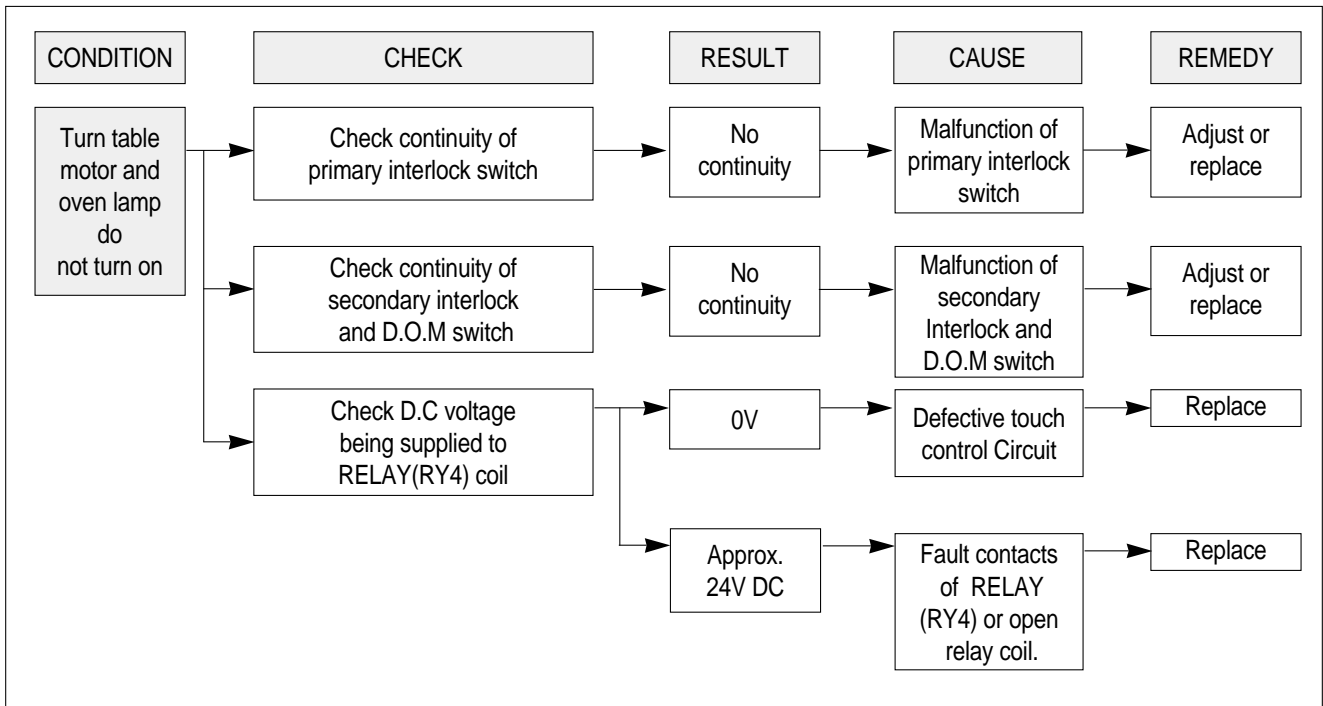
✔ **Caution** : In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (<http://svc.dwe.co.kr>).



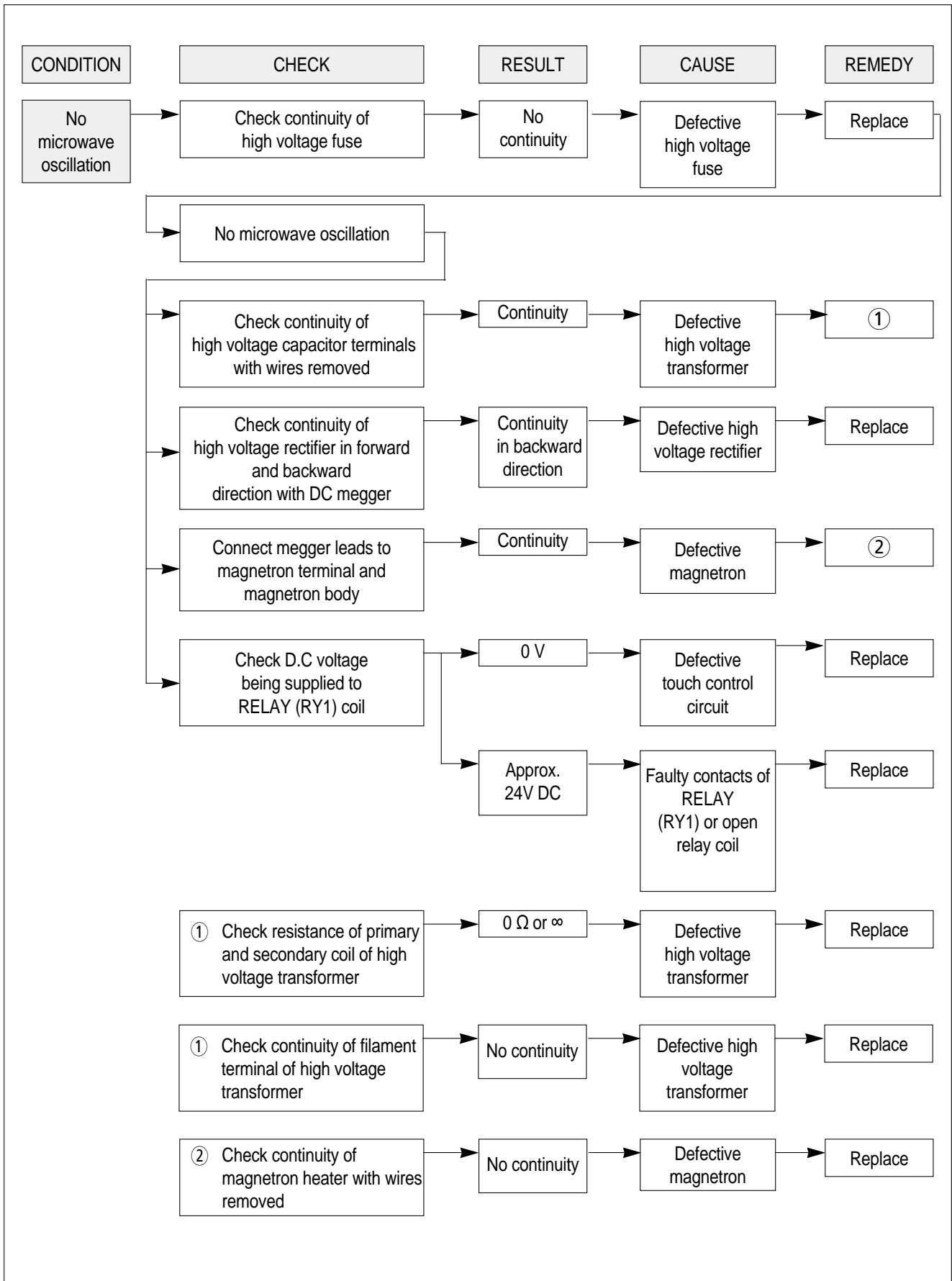
NOTE : All these switches must be replaced at the same time, please refer to (7.Interlock mechanism and adjust) for adjustment instructions

(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.

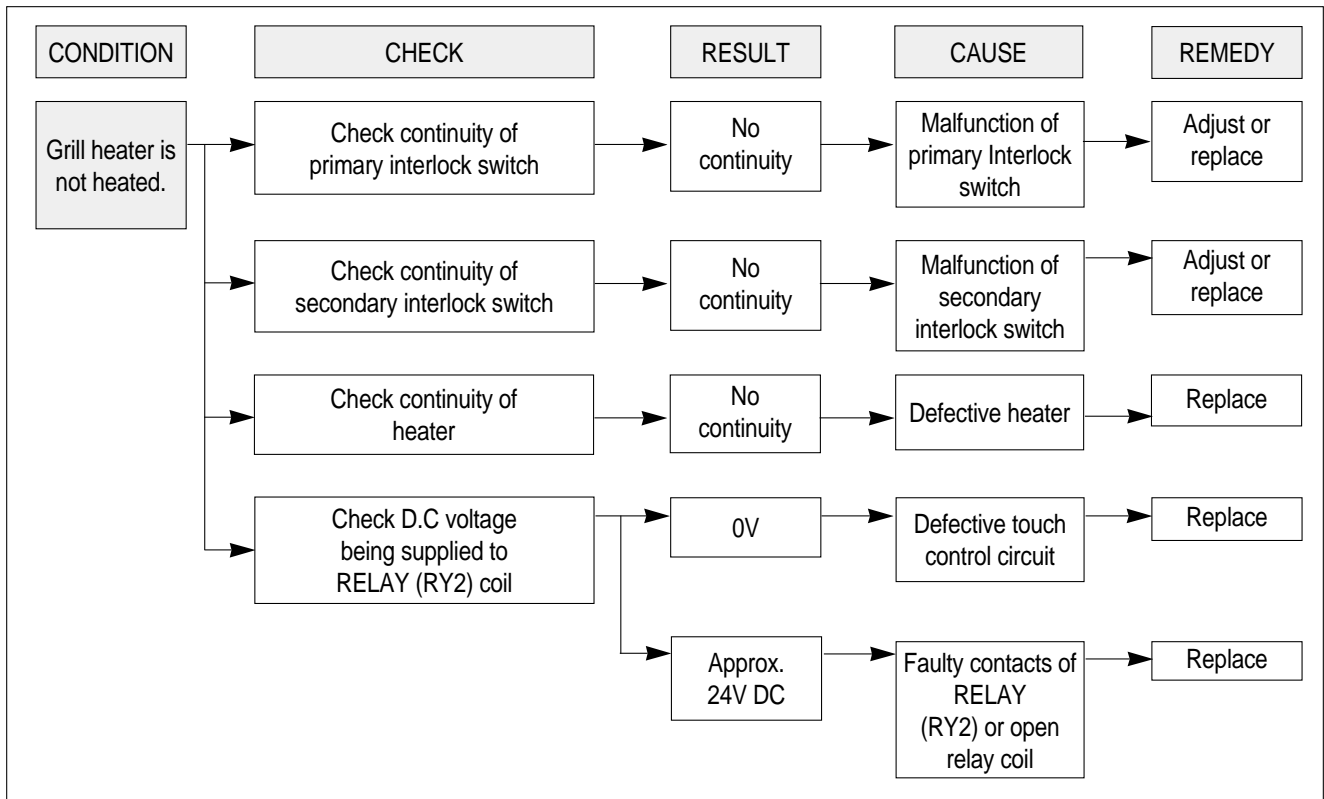


TROUBLE 3) No microwave oscillation even though fan motor rotates.



(TROUBLE 4)

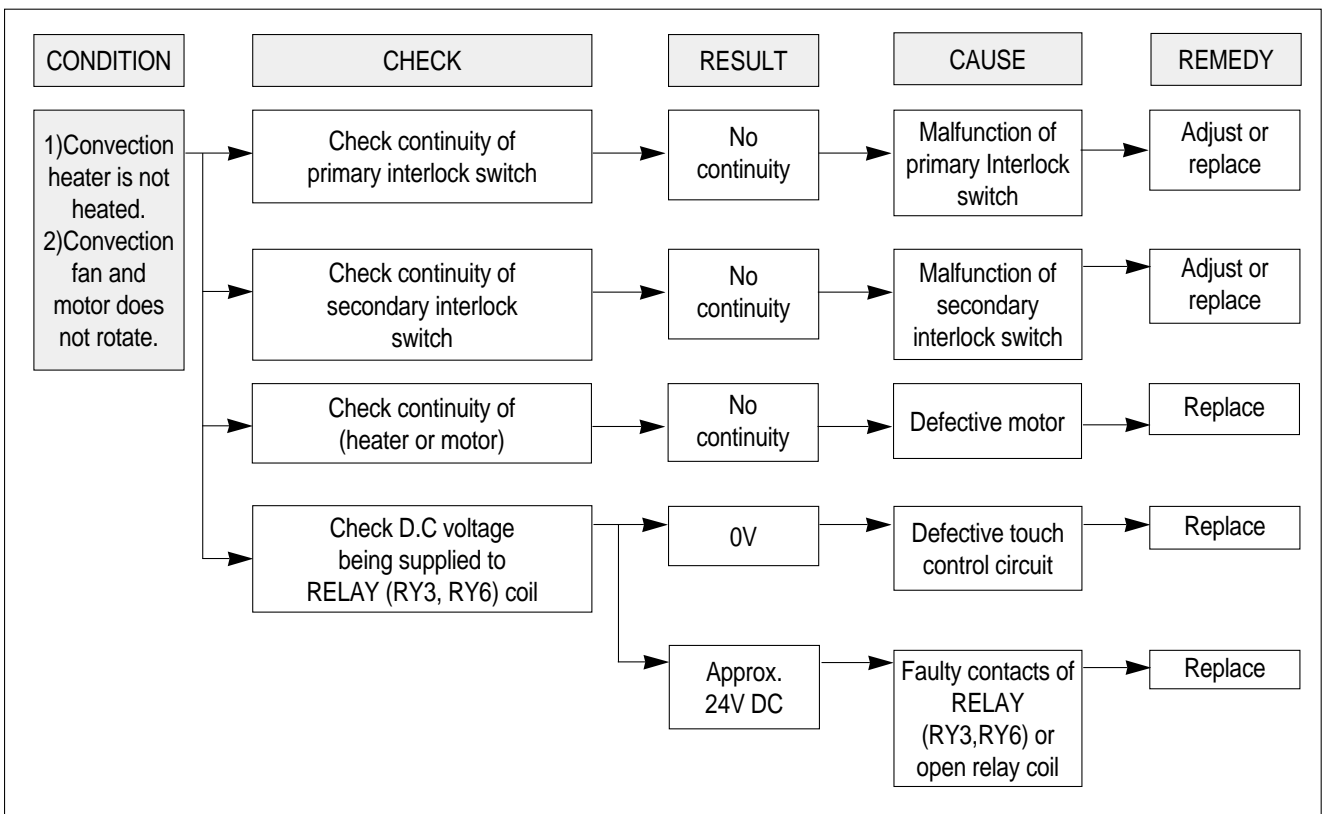
Grill heater (upper heater) is not heated; food will not become hot.



(TROUBLE 5)

1) Convection heater is not heated; food will not become hot.

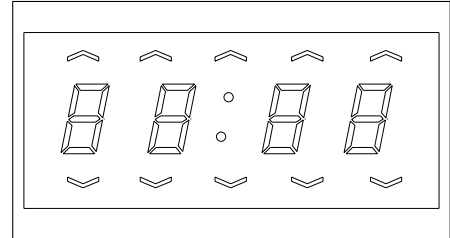
2) Convection fan motor does not rotate.



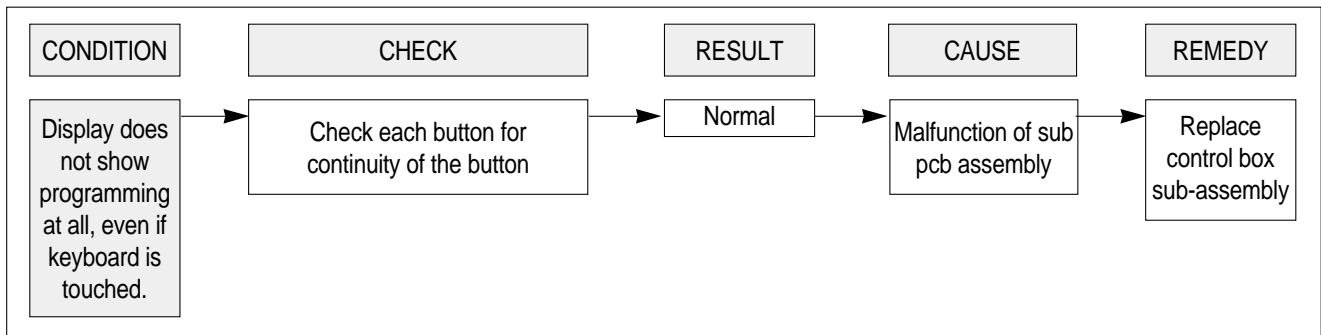
(TROUBLE 6)

The following visual conditions indicate a probable defective touch control Circuit or button P.C.B. assembly

1. Incomplete segments.
 - 1) segment missing
 - 2) partial segments missing
 - 3) digit flickering other than normal fluorescent slight flickering
2. A distinct change in the brightness of one or more numbers exists in the display
3. One or more digits in the display are not on when they should be.
4. Display does not count down or up with time cooking or clock operation.
5. Oven is programmable and cooks normally but no display shows.
6. Display obviously jumps in time while counting down.
7. Display counts down noticeably too fast while cooking.
8. Display does not show the time of day when clear button is touched.
9. Oven lamp and turn table motor do not stop although cooking is finished.

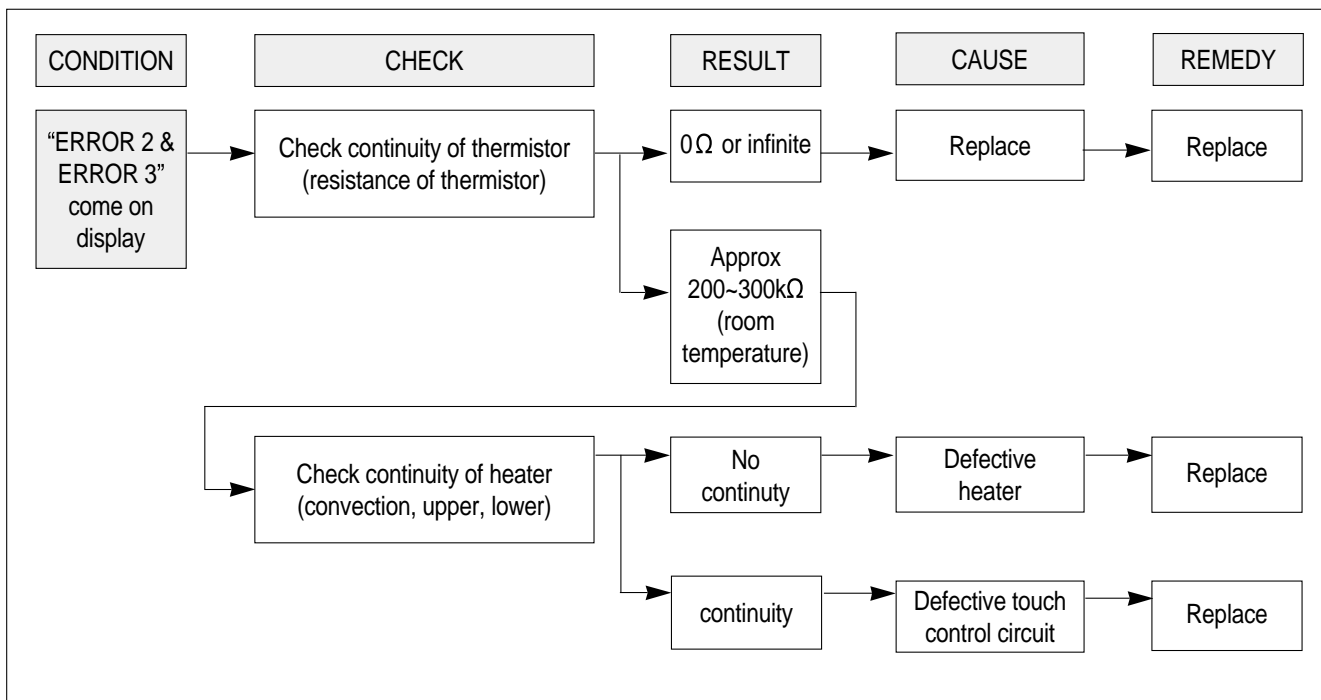


Check if the RELAY(RY4) contacts close and if they are close, replace touch control circuit.



(TROUBLE 7)

When "ERROR 2 ERROR 3" come on display.



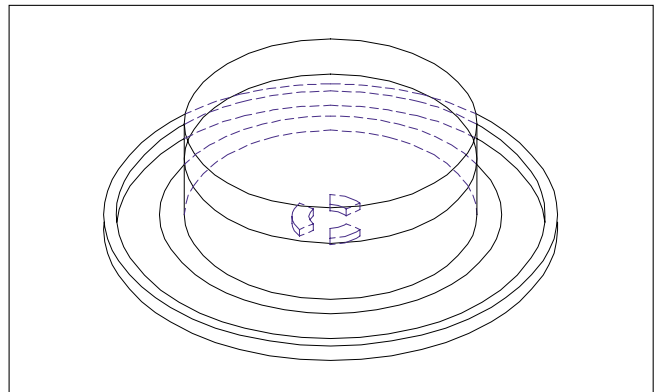
9. MEASUREMENT AND TEST

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

1. A cylindrical container of borosilicate glass is used for the test. It has a maximum thickness of 3mm, an external diameter of approximately 190mm and a height of approximately 90mm.
The mass of the container is determined.
2. At the start of the test, the oven and the empty container are at ambient temperature. Water having an initial temperature of $10^{\circ}\text{C} \pm 1^{\circ}\text{C}$ is used for the test. The water temperature is measured immediately before it is poured into the container.
3. A quantity of $1000\text{g} \pm 5\text{g}$ of water is added to the container and its actual mass obtained.
The container is then immediately placed in the centre of the oven shelf, which is in its lowest normal position.
The oven is operated and the time for the water temperature to attain $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ is measured. The oven is then switched off and the final water temperature is measured within 60s.



NOTE 1 - The water stirred is before its temperature is measured.

NOTE 2 - Stirring and measuring devices are to have a low heat capacity.

4. The microwave power output is calculated from the formula

$$P = 4,187 \cdot m_w (T_2 - T_1) + 0.55 \cdot m_c(T_2 - T_0)/t$$

where

- P is the microwave power output, in watts ;
- m_w is the mass of the water, in grams ;
- m_c is the mass of the container, in grams ;
- T_0 is ambient temperature, in degrees Celsius ;
- T_1 is the initial temperature of the water, in degree Celsius ;
- T_2 is the final temperature of the water, in degrees Celsius ;
- t is the heating time, in seconds, excluding the magnetron filament heating-up time.

* The microwave power output is stated in watts, rounded off to the nearest 50W

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 $20 \pm 2^{\circ}\text{C}$ ($68 \pm 3.6^{\circ}\text{F}$)

* Heating time for power output: ($T_2 = T_0$)

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

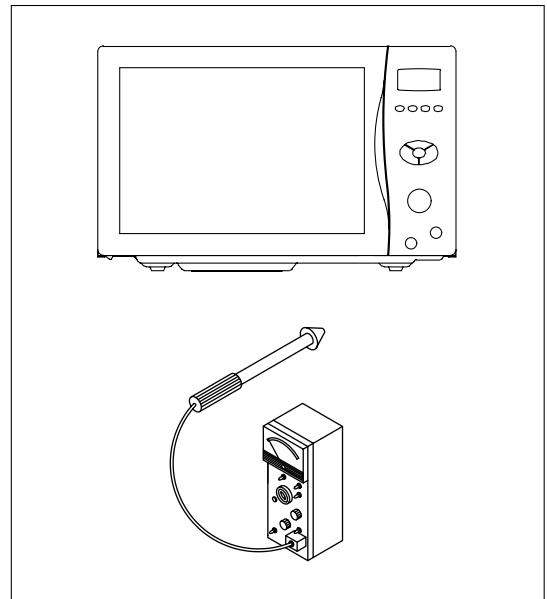
2. MICROWAVE RADIATION TEST

WARNING

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.

PROCEDURE

1. Prepare Microwave Energy Survey Meter, 600cc glass beaker, and glass thermometer 100°C (212°F).
2. Pour 275cc \pm 15cc of tap water initially at 20 \pm 5°C (68 \pm 9°F) in the 600 cc glass beaker with an inside diameter of approx. 95 mm(3.5 in.).
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 5 cm (2 in.) 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 seem 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 :
 - Secondary winding ... Approx. $100\ \Omega \pm 10\%$
 - Filament winding ... Approx. $0\ \Omega$
 - Primary winding ... Approx. $1.2\ \Omega$

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 $10M\Omega$ once the capacitor 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 an 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 $0.1\ \Omega$ or less.
- 3) A continuity check between each filament terminal and magnetron case should read open.

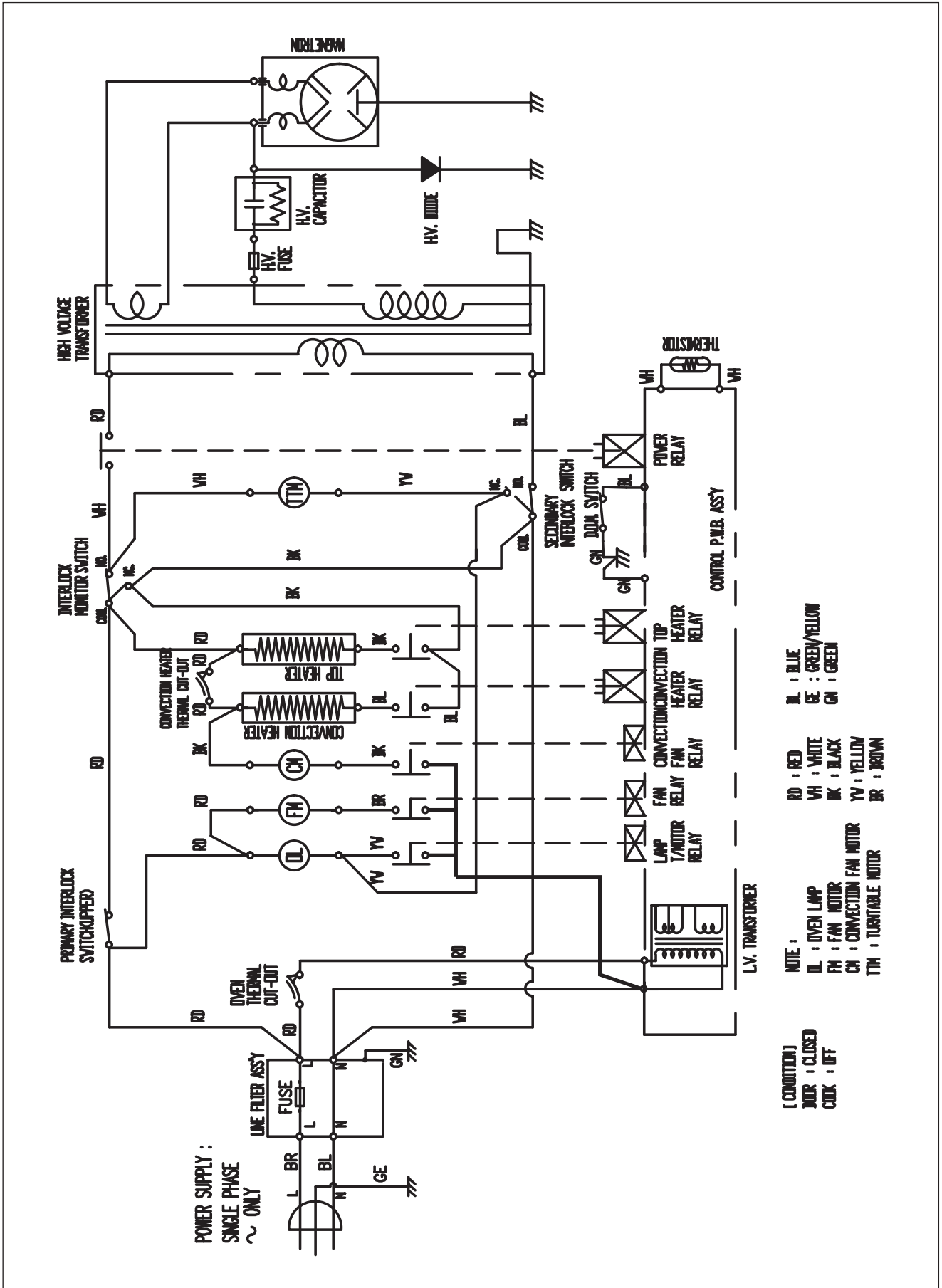
5. Fuse

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.

4. COMPONENT ACTION

COOKING MODE		MAGNE-TRON	UPPER ELEMENT	LOWER ELEMENT	REAR ELEMENT	CONVECTION FAN
MANUAL MODE	M/W	●				
	GRILL-1		●			
	GRILL-2			●		
	GRILL-3		●	●		
	COMBI-1	●	●	●	●	●
	COMBI-2	●	●	●	●	●
	COMBI-3		●	●	●	●
	COMBI-4	●	●			
	COMBI-5	●	●	●		
	CONVECTION100~130				●	●
	CONVECTION140~150			●	●	●
	CONVECTION160~250		●	●	●	●
ONE TOUCH	CAKE/BREAD	●	●	●	●	●
	CRUSTY	●	●	●	●	●
AUTO MODE	ROAST BEEF	●	●	●	●	●
	ROAST CHICKEN	●	●	●	●	●
	ROAST PORK	●	●	●	●	●
	BAKED FISH	●	●	●	●	●
	BAKED POTATO	●	●	●	●	●
	BAKED POTATO	●	●	●	●	●
	ROAST POTATO	●	●	●	●	●
	FRESH VEGETABLES	●				
	FROZEN VEGETABLES	●				
	CASSEROLE	●				

10. WIRING DIAGRAM



11. EXPLODED VIEW AND PARTS LIST

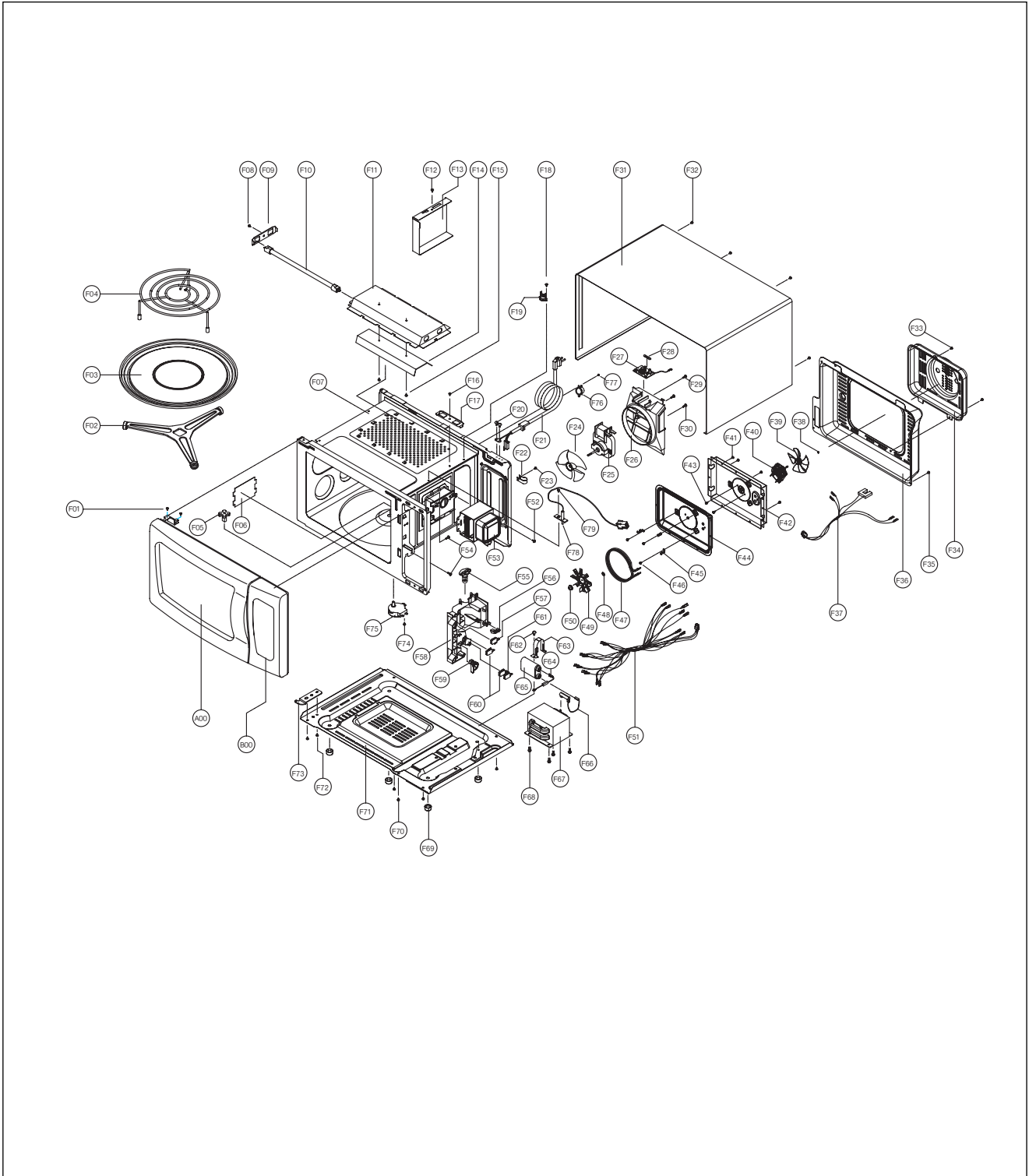
1. DOOR ASSEMBLY

Refer to 6. Disassembly and assembly.

2. CONTROL PANEL ASSEMBLY

Refer to 6. Disassembly and assembly.

3. TOTAL ASSEMBLY



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NO	PART CORD	PART NAME	DESCRIPTION	Q'TY	REMARK
A00	3511725500	DOOR AS	KOC-9N3T7R	1	KOC-9N2T7S 9N3T7S, 9N3T7R
	3511725520		KOC-9N3T7S24		KOC-9N2T7S24, 9N3T7S24
B00	PKCPSWAS20	CONTROL-PANEL AS	KOC-9N3T7S	1	KOC-9N3T7S, 9N3T7S24
	PKCPSWAS30		KOC-9N3T7R		KOC-9N3T7R
	PKCPSWGA00		KOC-9N2T7S		KOC-9N2T7S, 9N2T7S24
F01	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	2	
F02	3512521000	GUIDE ROLLER AS	KOC-1B0K0S	1	
F03	3517205710	TRAY METAL AS	SPP T0.6	1	
F04	3517202611	TRAY RACK AS	KOC-961C0S 117MM	1	
F05	3517401900	COUPLER	PTFE	1	
F06	3511408300	COVER WAVE GUIDE	MICA T0.35	1	
F07	3516117001	CAVITY AS	KOC-9N4T7S	1	
F08	7S432X4081	SPECIAL SCREW	TT3 TRS 4X8 SE MFZN	1	
F09	3510607700	BRACKET HEATER	SA1D-80 T0.5	1	
F10	3512805800	HEATER MIRACLON	230V 800W 270MM	1	
F11	3511410300	COVER HEATER *T	SA1D-80 T0.5	1	
F12	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	1	
F13	3512520500	GUIDE AIR OUTLET	SA1D-80 T0.5	1	
F14	3512804900	HEATER REFLECTOR	STS430 T0.5	1	
F15	7113400814	SCREW TAPPING	T1 BIN 4X8 MFNI	2	
F16	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	1	
F17	3510607700	BRACKET HEATER *T	SA1D-80 T0.5	1	
F18	7121400611	SCREW TAPPING	T1 PAN 4*6 MFZN	1	
F19	3518903000	THERMOSTAT	OFF:140 ON:125 H #187	1	
F20	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	2	
F21	35113V5QJ5	CORD POWER AS	3X1.5 80X80 120-RTML	1	
			RUBBER		
F22	3511200900	CLAMP WIRE	DA-6N	1	
F23	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	1	
F24	3511800100	FAN	P.P GF20	1	
F25	3963513010	MOTOR SHADED POLE	230V 25W MW15CA-B01	1	
F26	3512515300	GUIDE WIND	PP	1	
F27	3518605001	NOISE-FILTER	DWLF-M05	1	KOC-9N3T7S, 9N3T7S24
	3518605500		DWLF-M07		KOC-9N3T7R
F28	5F1CD0152S	FUSE	15A	1	KOC-9N3T7S 9N3T7S24
	5F1CD0122S		12A		KOC-9N3T7R

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NO	PART CORD	PART NAME	DESCRIPTION	Q'TY	REMARK
F29	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	1	
F30	7121403011	SCREW TAPPING	T2S PAN 4X30 MFZN	2	
F31	3510805200	CABINET AS	KOC-910K0S	1	
F32	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	4	
F33	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	2	
F34	3511407300	COVER MOTOR *B	SA1D-80 T0.5	1	
F35	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	1	
F36	3511407900	COVER *B	SA1A-80 T0.5	1	
F37	3512767611	HARNESS CONVECTION	KOC-924T0S ALTERNATE	1	
F38	7402704600	RING C	CR-5 SK5	1	
F39	3511800900	FAN	PBT	1	
F40	3963514330	MOTOR SHADED POLE	230V 50HZ MW10CA-T03	1	
F41	7112400811	SCREW TAPPING	T1 TRS 4X8 MFZN	4	
F42	3513303400	INSULATOR HEATER *B	SBHG-1 T0.5	1	
F43	7601400811	SCREW MACHINE	PAN 4X8 MFNI	2	
F44	3511409800	COVER HEATER *B	SA1D-80 T0.5	1	
F45	3513002300	HOLDER HEATER	SUS304 T0.5	3	
F46	7113400814	SCREW TAPPING	T1 BIN 4X8 MFNI	3	
F47	3512801800	HEATER	230V 1400W 1R18344	1	
F48	7400104011	WASHER PLAIN	PW-1-4 MFZN	1	
F49	3511800700	FAN CONVECTION	SA1D-80 T0.5	1	
F50	7S627W40X1	SPECIAL SCREW	NUT FLANGE M4 MFZN	1	
F51	3512780901	HARNESS MAIN	KOC-9N4T7S	1	
F52	3516004000	SPECIAL SCREW	T2 BOLT FLANGE 5X12 DACRO	1	
F53	3518003700	MAGNETRON	2M218JFL 6CF	1	
F54	7122401211	SCREW TAPPING	T2S TRS 4X12 MFZN	2	
F55	3513601600	LAMP	BL 240V 25W T25 C7A H187	1	
F56	3513702100	LEVER SW MICRO	POM,KOG-846T0S	1	
F57	4415A17352	SW MICRO	VP-533A-OF SPNO #187 200G	1	
F58	3513816000	LOCK	PP	1	
F59	3513700800	LEVER LOCK	POM	1	
F60	4415A66910	SW MICRO	VP-531A-OF/SZM-V16-FA-61	2	
F61	3518571000	SWITCH PUSH	MP101C	1	
F62	7S422X4081	SCREW SPECIAL	TT3 TRS 4X8 SE MFZN	1	
F63	3513003200	HOLDER HV CAPACITOR	SECC T0.6	1	
F64	3518400400	DIODE HV	HVR-1X-3AB 12KV #187	1	
F65	3518302301	CAPACITOR HV	2100VAC 1.10UF #187 80MM	1	
F66	3518701400	FUSE HV	5KV 0.7A	1	
F67	3518122000	TRANS HV	R1S591 ES00	1	
F68	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	4	
F69	3512101400	FOOT	DASF-310	4	
F70	7112401011	SCREW TAPPING	T1 TRS 4X10 MFZN	5	

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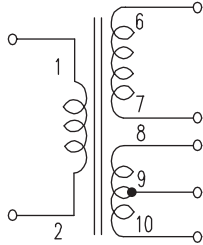
NO	PART CORD	PART NAME	DESCRIPTION	Q'TY	REMARK
F71	3510313600	BASE	SBHG T0.8	1	
F72	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	1	
F73	3515202800	STOPPER HINGE *U AS	KOR-121M0A	1	
F74	7121400611	SCREW TAPPING	T1 PAN 4*6 MFZN	1	
F75	3966031110	MOTOR SYNCRO	220/240V 50/60 SM16 HK36M6F	1	
F76	3518902900	THERMOSTAT	OFF:140 ON:125 V #187	1	
F77	7121300611	SCREW TAPPING	T2S PAN 3X6 MFZN	1	
F78	3514801400	SENSOR TEMPERATURE	PTM-K312-D7	1	
F79	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	1	

12. PRINTED CIRCUIT BOARD

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)	Voltage(no load)
6-7	AC 17.0 V	AC 19.9 V
8-9	AC 1.3 V	AC 1.6 V
9-10	AC 1.3 V	AC 1.6 V

NOTE
 1. Secondary side voltage of the low voltage transformer changes in proportion to fluctuation of power source voltage.
 2. The allowable tolerance of the secondary voltage is within $\pm 5\%$ of nominal voltage.

2. Voltage Check

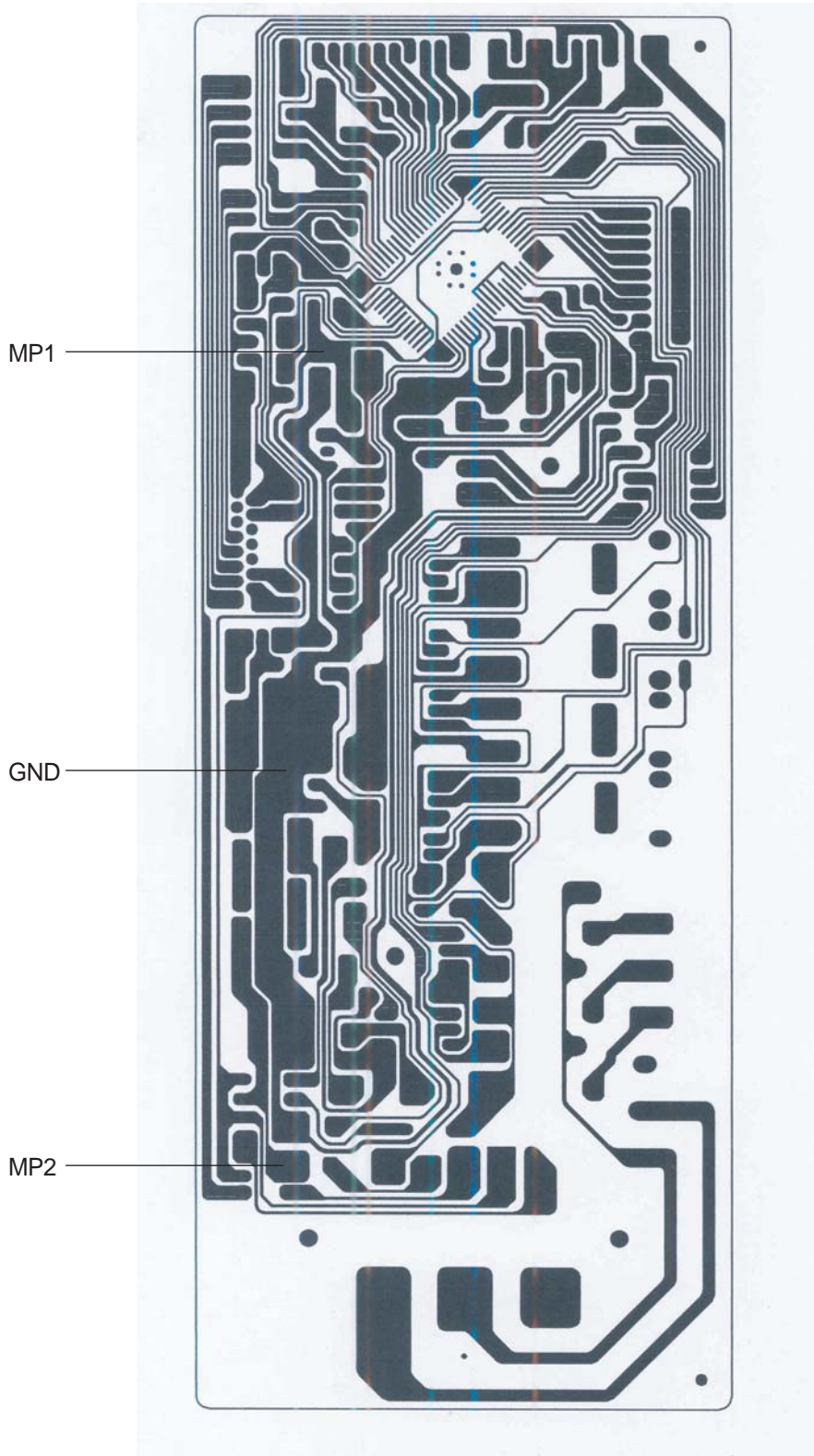
- Key check point

NO	CHECK POINT	REMARK
1	IC1 PIN 26, 27(KOC-923T9S/R)	5VDC $\pm 5\%$
2	IC1 PIN 28 (KOC-923T9S/R)	
3	IC1 PIN 8 OR 9	

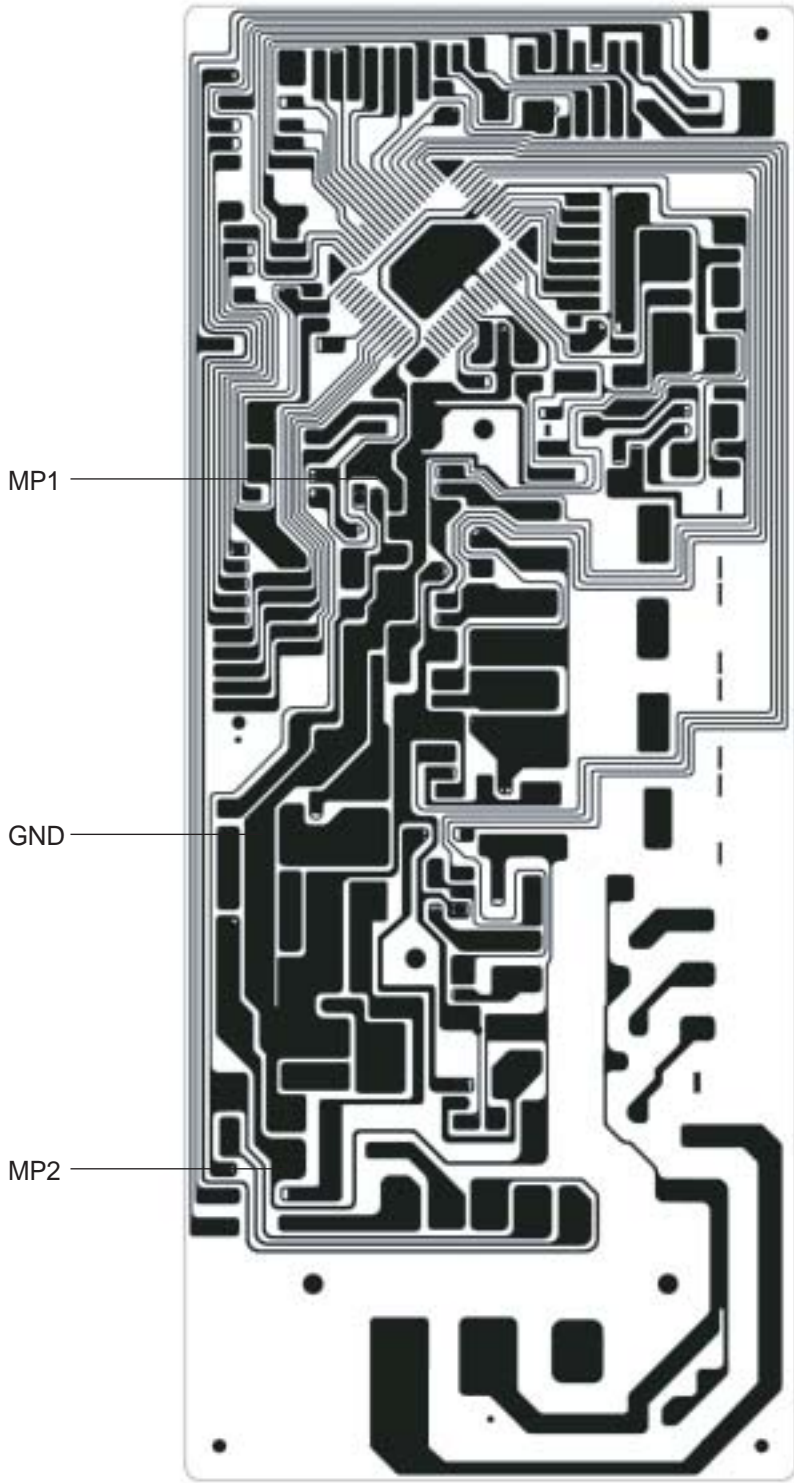
- Check method

NO	MEASURE POINT	WAVE FORM	REMEDY	REMARK
1	MP1	DC 5V $\pm 5\%$	Replace ZD3, EC1(KOC-9N2T7S/R)	NO LOAD
			Replace ZD2, EC1(KOC-9N3T7S/R)	
2	MP2	DC 24V $\pm 20\%$	Replace D18-D21, EC5(KOC-9N2T7S/R)	NO LOAD
			Replace D18-D21, EC4(KOC-9N3T7S/R)	

NOTE: Each measure point must be measured with GND points.



MEASURE POINT OF KOC-9N2T7S/R

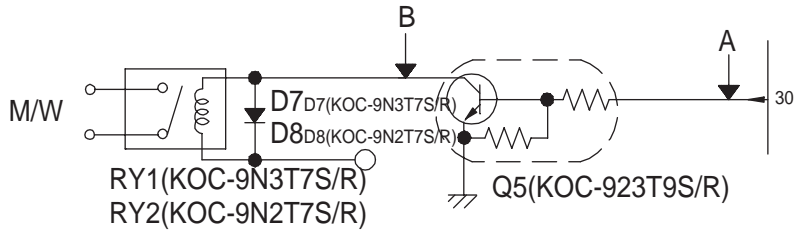


MEASURE POINT OF KOC-9N3T7S/R

3. Case of no microwave oscillation

1) When touching M/W button, oven lamp turns on and Fan motor and turntable rotate, and cook indicator in display comes on.

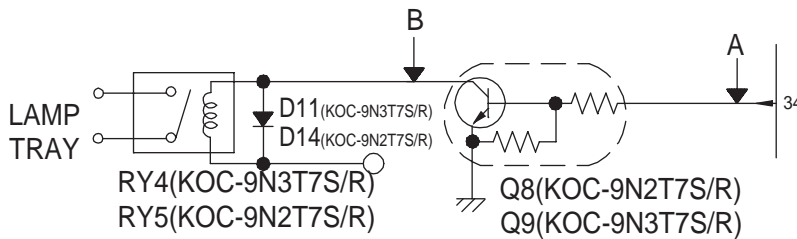
*Cause: **RELAY 1** does not operate.



STATE	POINT A	POINT B
RELAY 1 ON	+5V DC	GND
RELAY 1 OFF	GND	+24V DC

2) When touching M/W button, oven lamp does not turn on and turntable motor does not rotate but cook indicator in display comes on.

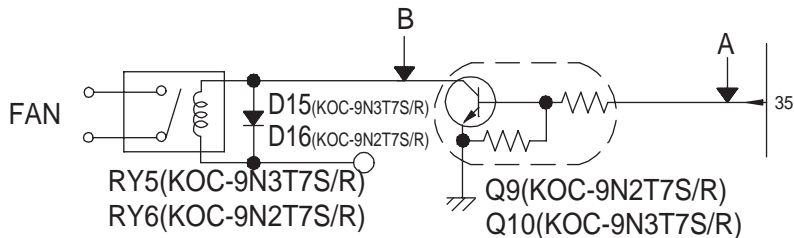
*Cause: **RELAY 1** does not operate.



STATE	POINT A	POINT B
RELAY 4 ON	+5V DC	GND
RELAY 4 OFF	GND	+24V DC

3) When touching M/W button, oven lamp turn on and turns on and fan motor does not rotate but cook indicator in display comes on.

*Cause: **RELAY 5** does not operate.

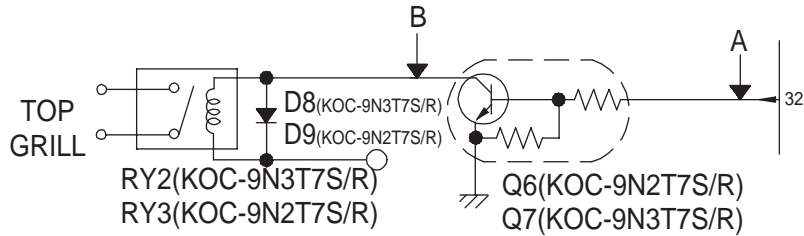


STATE	POINT A	POINT B
RELAY 5 ON	+5V DC	GND
RELAY 5 OFF	GND	+24V DC

4. Case of no heating of top grill

When touching GRILL or COMBI button, oven lamp turns on and fan motor and turntable rotate, and cook indicator in display comes on.

*Cause: **RELAY 2** does not operate.

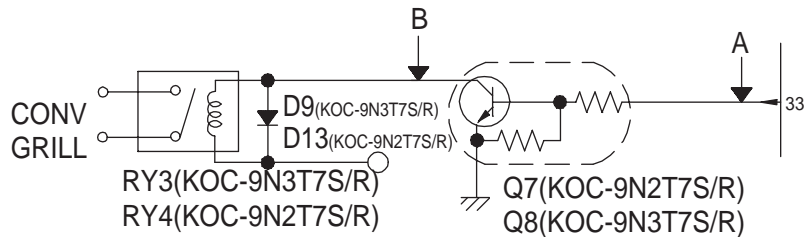


STATE	POINT A	POINT B
RELAY 2 ON	+5V DC	GND
RELAY 2 OFF	GND	+24V DC

5. Case of no heating of convection grill

When touching CONVECTION button, oven lamp turns on and Fan motor and turntable rotate and cook indicator in display comes on.

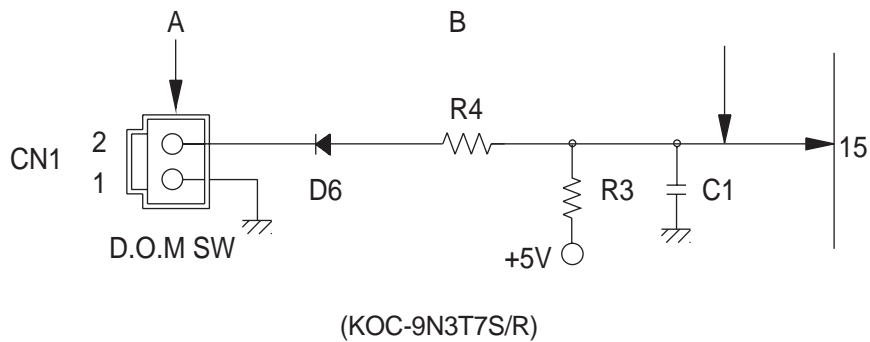
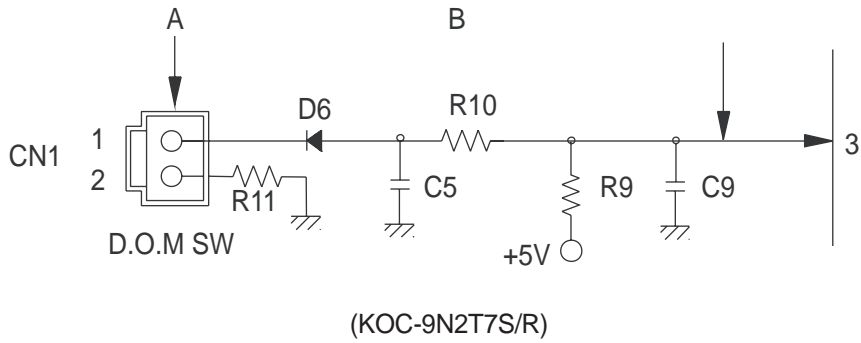
*Cause: **RELAY 3** does not operate.



STATE	POINT A	POINT B
RELAY 3 ON	+5V DC	GND
RELAY 3 OFF	GND	+24V DC

6. Case of no stopping of the count down timer

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

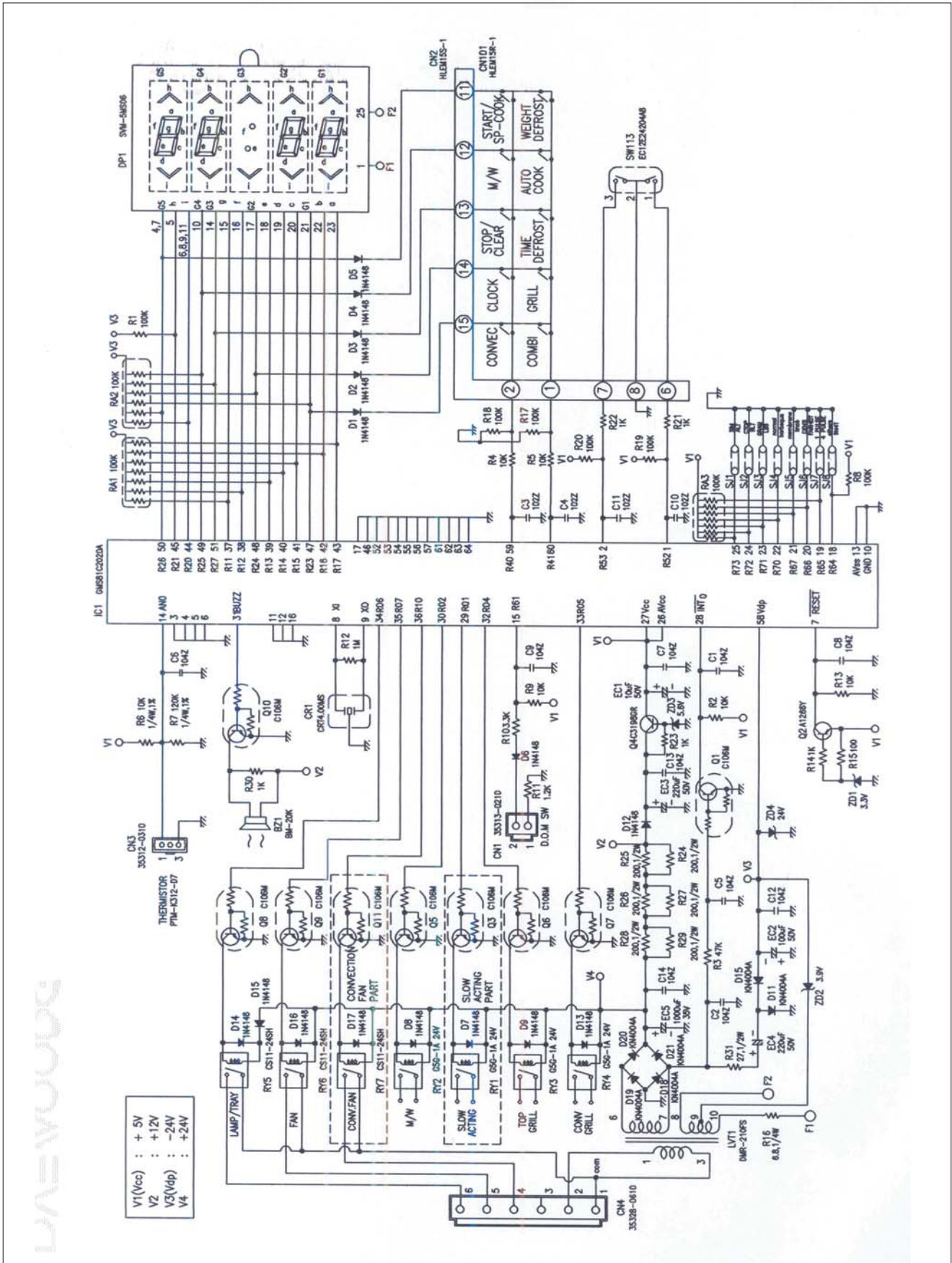


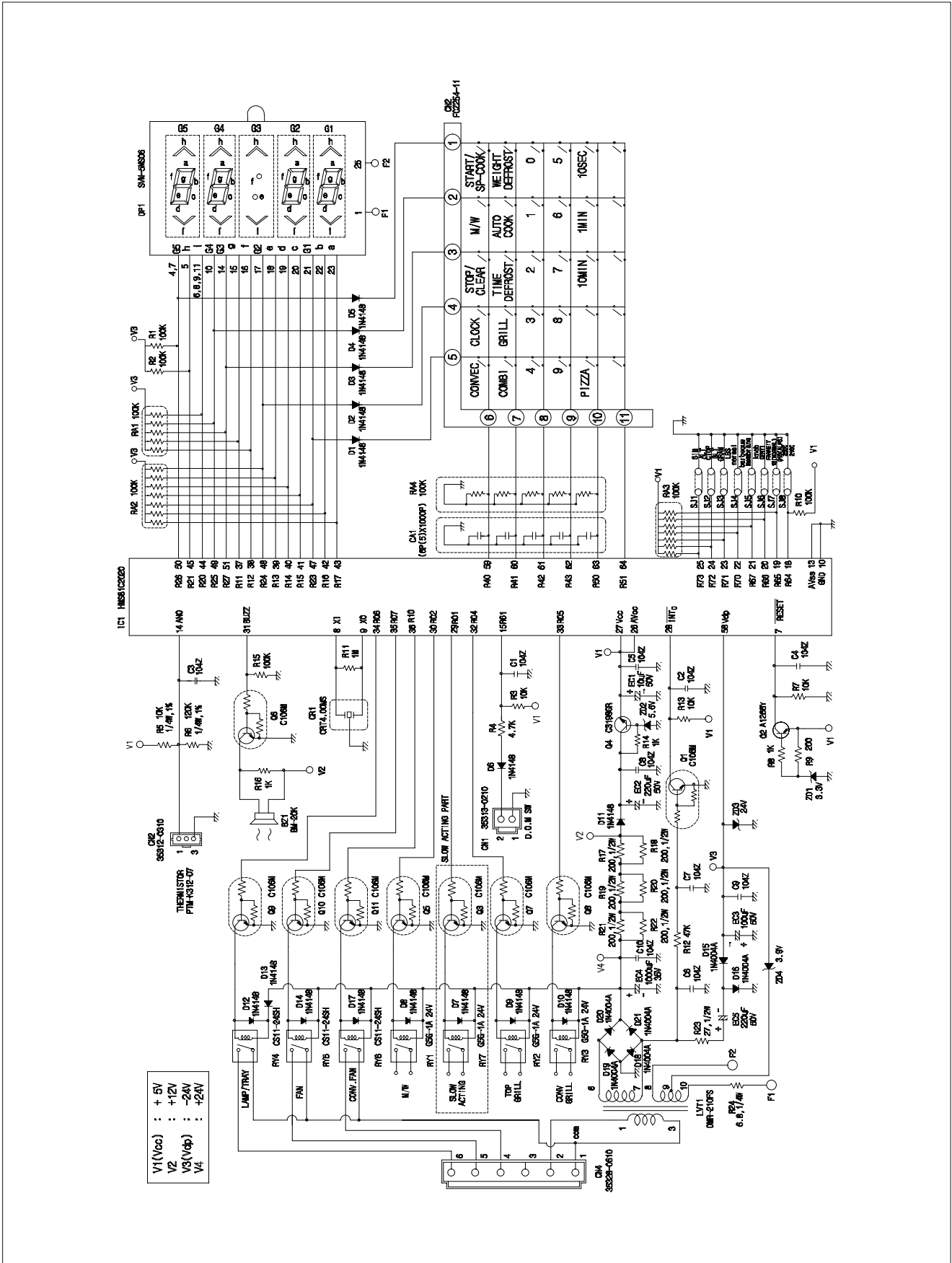
STATE \ POINT	A	B
DOOR OPEN	OPEN	+5V DC
DOOR CLOSED	CLOSE	GND

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

13. P.C.B. CIRCUIT DIAGRAM

KOC-9N2T7S/R





✓ **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	NAME	SYMBOL	SPECIFICATION	PART CODE	Q'TY	REMARK
1	BUZZER	BZ1	BM-20K	3515600100	1	
2	C ARRAY	CA1	5P(4) 102 M 50V	CN4XB-102M	1	
3	C CERA	C1,2,5-9,12~14	104 50V Z AXIAL	CCZF1H104Z	10	
4	C CERA	C3,4,10,11	102 50V K AXIAL	CCZB1H102K	4	
5	C ELECTRO	EC1	50V RS 10uF	CEXE1H100A	1	
6	C ELECTRO	EC2	50V RSS 100uF	CEXF1H101V	1	
7	C ELECTRO	EC3,4	50V RSS 220uF	CEXF1H221V	2	
8	C ELECTRO	EC5	35V RSS 1000uF	CEXF1V102V	1	
9	CONNECTOR WAFER	CN1	35313-0210	30166M7020	1	
10	CONNECTOR WAFER	CN3	35312-0310	30166M5030	1	
11	CONNECTOR FILM	CN2	HLEM15S-1	4CW215RBD0	1	
12	CONNECTOR WAFER	CN4	35328-0610	4CW3061MX0	1	
13	DIODE	D1~9,12~17	1N4148	DZN4148---	15	
14	DIODE	D10,11,18~21	1N4004A	DZN4004A--	6	
15	DIODE ZENER	ZD1	UZ-3.3BSB	DZUZ3R3BSB	1	
16	DIODE ZENER	ZD3	UZ-5.6BSB	DZUZ5R6BSB	1	
17	DIODE ZENER	ZD4	UZ-24BSB	DZUZ24BSB-	1	
18	DIODE ZENER	ZD2	UZ-3.9BSB	DZUZ3R9BSB	1	
19	DISPLAY VFD	DP1	SVM-5MS06	DSVM5MS06-	1	
20	HOLDER VFD		PP	3513002000	1	
21	PCB MAIN	M264	MAIN PCB	3514330110	1	
22	R ARRAY	RA1,3	8P(7) 1/8 100K J	RA-88X104J	2	
23	R ARRAY	RA2	7P(6) 1/8 100K J			
24	R CARBON FILM	R31	1/2W 27 5%	RD-2Z270JS	1	
25	R CARBON FILM	R24~29	1/2W 200 5%	RD-2Z201JS	6	
26	R CARBON FILM	R16	1/4W 6.8 5%	RD-4Z689J-	1	
27	R CARBON FILM	R15	1/6W 100 5%	RD-AZ101J-	1	
28	R CARBON FILM	R14,21,22,23,30	1/6W 1K 5%	RD-AZ102J-	5	
29	R CARBON FILM	R2,4,6,9,13	1/6W 10K 5%	RD-AZ103J-	5	
30	R CARBON FILM	R3	1/6W 47K 5%	RD-AZ473J-	1	
31	R CARBON FILM	R1,8,17~20	1/6W 100K 5%	RD-AZ104J-	6	
32	R CARBON FILM	R12	1/6W 1M 5%	RD-AZ105J-	1	
33	R CARBON FILM	R6	1/4W 10K 1%	RN-4Z1002F	1	
34	R CARBON FILM	R7	1/4W 120K 1%	RN-4Z1203F	1	
35	R CARBON FILM	R10	1/6W 3.3K 5%	RD-AZ332J	1	
36	R CARBON FILM	R11	1/6W 1.2K 5%	RD-AZ122J	1	
37	RESONATOR CERA	CR1	CRT4.00MS	5P4R00MTS-	1	
38	IC MICOM	IC1	HK016	150SC9N4T0	1	
39	TRANSISTOR	Q2	KTA-1266Y	TZTA1266Y-	1	
40	TRANSISTOR	Q1,Q5~11	KRC-106M	TZRC106M--	8	

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NO	NAME	SYMBOL	SPECIFICATION	PART CODE	Q'TY	REMARK
45	WIRE COPPER	J1,3,5,10,11,24,25,28	1/0.52 TIN COATING	85801052GY	8	7.5mm
46	WIRE COPPER	J2,6~9,12,13,17~20,26,27,29	1/0.52 TIN COATING	85801052GY	14	10mm
47	WIRE COPPER	J4,14~16,21~23	1/0.52 TIN COATING	85801052GY	7	12.5mm
48	WIRE FLAT	WF1	15/90 WH C	WSJ-159007	1	
49	SELECTION JUMPER	SJ5,7,8	1/0.52 TIN COATING	85801052GY	3	ONLY FOR KOC-9N2T7S
1	PCB SUB	M265	SUB PCB	3514330210	1	
2	CONNECTOR FILM	CN101	HLEM15R-1	4CW215RBD0	1	
3	SW TACT	SW101~108,110,111	KPT-1115AM	5S50101Z93	10	
4	SW ROTARY	SW109	EC12E24204A8	5S10302005	1	
5	WIRE COPPER	J101~103	1/0.52 TIN COATING	85801052GY	3	10mm



DAEWOO ELECTRONICS CORP.
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