

# DAEWOO

## Service Manual

### Microwave Oven

Model: KOR-6185



DAEWOO ELECTRONICS CO., LTD.

## 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 connection.
- (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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**CAUTION :** This Device is to be Serviced Only by Properly Qualified Service Personnel. Consult the Service Manual for Proper Service Procedures to Assure Continued Compliance with the Federal Performance Standard for Microwave Ovens and for Precautions to be Taken to Avoid Possible Exposure to Excessive Microwave Energy.

## PROPER USE AND SERVICE 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 seal area and oven cavity surface 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 ascertained oven unit is found to have excessive emission level  $5\text{mW}/\text{cm}^2$ , the service person should:
  - (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 immediately.

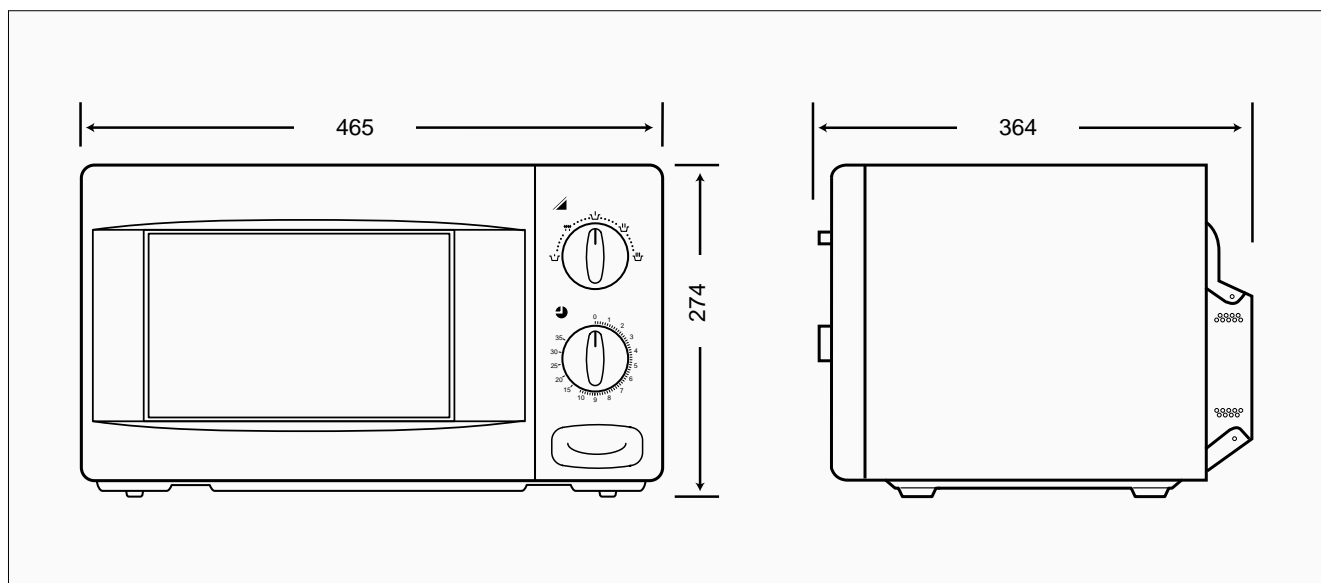
### CAUTION MICROWAVE RADIATION

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 CONNECTED. ALL INPUT AND OUTPUT MICROWAVE CONNECTIONS, WAVEGUIDES, FLANGES, AND GASKETS 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.

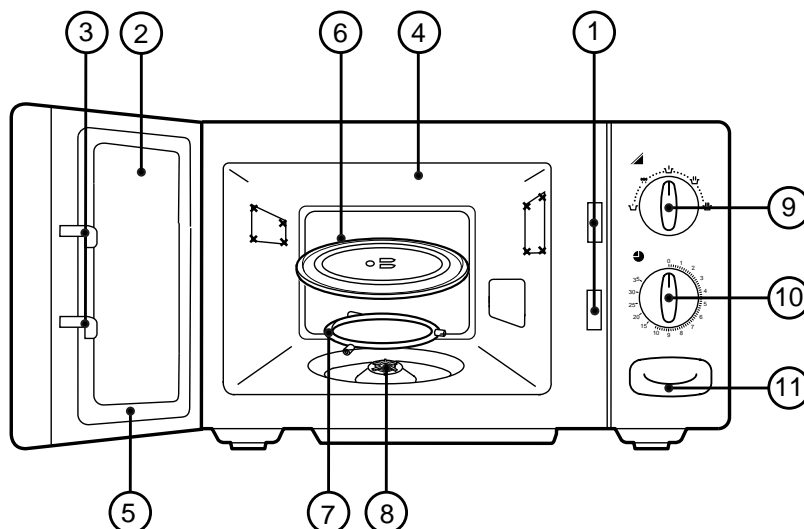
## SPECIFICATIONS

ITEM		SPECIFICATION
POWER SUPPLY		120V~60HZ, SINGLE PHASE WITH EARTHING
MICRO WAVE	POWER CONSUMPTION	920W
	OUTPUT POWER	600W (IEC 705)(FULL MICROWAVE POWER)
	FREQUENCY	2450 MHz
OUTSIDE DIMENSIONS (WXHXD)		465 X 274 X 364 mm
CAVITY DIMENSIONS(WXHXD)		290 X 200 X 290 mm
NET WEIGHT		APPROX 12.5Kg
TIMER		35 min. DUAL SPEED
POWER SELECTIONS		5 LEVELS
CAVITY VOLUME		0.6 Cu. Ft.

*\*Specifications are subject to change without notice.*



## FEATURES DIAGRAM



- ① **Safety Interlock System.**
- ② **Door Viewing Screen** - Allows viewing of food, the screen is designed so that light can pass through, but not the microwave.
- ③ **Door Hook** - When the door is closed, it will automatically shut. If the door is opened while the oven is operating, the magnetron will immediately stop operating.
- ④ **Oven Cavity**
- ⑤ **Door Seal** - Door seal maintains the microwave energy within the oven cavity and prevents micro leakage.
- ⑥ **Glass Cooking Tray** - Made of special heat resistant glass. Food in a proper receptacle is placed on this tray for cooking.
- ⑦ **Roller guide** - This must always be used for cooking together with the glass cooking tray.
- ⑧ **Coupler** - this fits over the shaft in the center of the oven's cavity floor. This is to remain in the oven for all cooking.
- ⑨ **Knob V.P.C** - Used to select a microwave power level.
- ⑩ **Knob timer** - Used in setting cooking time for all functions.
- ⑪ **Door Release button** - By pushing this button the latch system cut of all circuits and stops the oven before the door is opend.

## INSTALLATION

### 1 Steady, flat location

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

### 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 oven 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 or antenna, feeder and so on.

### 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

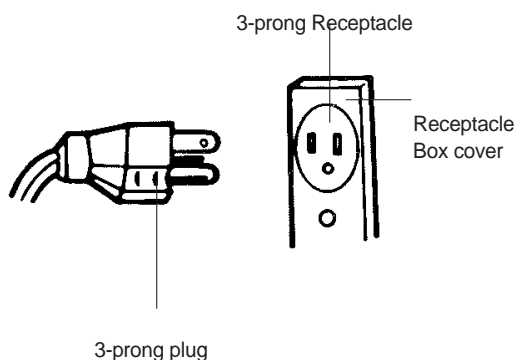
- Check your local power source.

This microwave oven requires a current of approximately 6 amperes, 120 Volts, 60Hz grounded outlet.

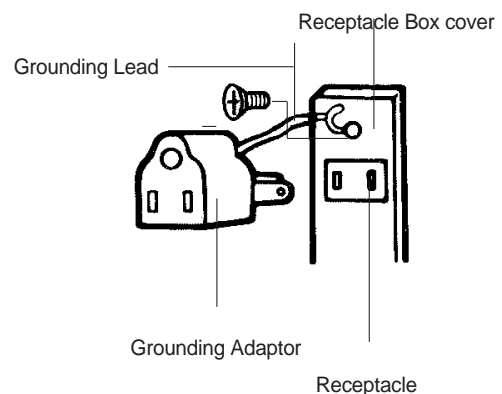
- Power supply cord is about 1.0 meters long.

1. A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or tripping over a longer cord.
2. Longer cord sets or extension cords are available and may be used if care is exercised in their use.
3. If a long cord or extension cord is used, (1) the marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance, (2) the extension cord must be a grounding-type 3-wire cord, and (3) the longer cord should be arranged so that will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally.

#### When use 3-pronged plug



#### When use a grounding adaptor, make sure the receptacle box is fully grounded



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

A misaligned door, Broken door, A dents in cavity.

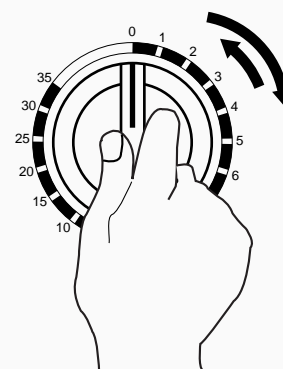
If any of the above are visible, DO NOT INSTALL, and notify dealer immediately.

## OPERATION

- 1 Connect the main 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 Choose cooking power level by setting V.P.C. knob to the desired position.  
Refer to cookbook for recommended power levels.
- 5 Determine cooking time. Consult cookbook for recipe timing.
  - Oven light turns on and cooling fan starts to operate. Microwave cooking starts.
- 6 You may open the door while the oven is operating. As soon as the door is opened, the safety mechanisms stop the generation of microwave power and the operation of cooking timer.  
If you wish to change the time during cooking, simply adjust the Timer to the desired time.
- 7 When the timer reaches zero, a bell will ring and the unit will turn off.
  - Oven light turns off.
 If additional cooking time is needed and the door is closed, the oven will automatically start when the Timer is reset.

### NOTE :

1. When setting Timer for less than 2 minutes, turn the Timer past 2 minutes and then return to the correct timer setting.



2. Various clicking noises may be heard when turning the V.P.C. Knob. This is normal and does not affect the operation of your microwave oven.

### Variable power cooking

ON and OFF cycle time of mechanical V.P.C. switch is 30 seconds.

When the V.P.C. knob is set to the desired position and timer knob turns to the desired position, the V.P.C. switch has a cycle (ON/OFF time (sec)) listed below.

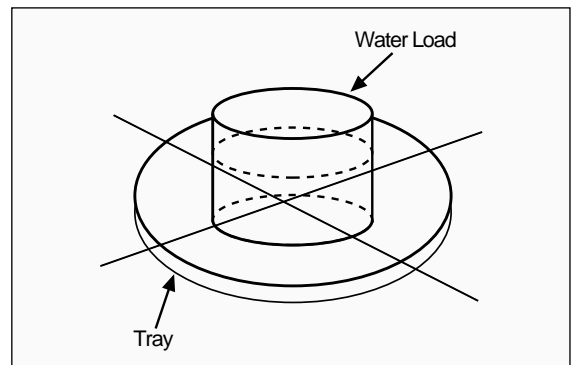
Variable power setting	ON/OFF time (SEC)	POWER
☰ (HIGH)	30/0	100%
☷ (MED HIGH)	23.2/6.8	77%
☶ (MEDIUM)	16.5/13.5	55%
☼ (DEFROST)	9.8/20.2	33%
☹ (WARM)	5/25	17%

## MEASUREMENT OF THE MICROWAVE OUTPUT POWER

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. 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  $1,000 \pm 5$  cc of potable water.
2. 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  $10 \pm 2^\circ\text{C}$  ( $50 \pm 3.6^\circ\text{F}$ ).  
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 70 seconds.  
Heating time is measured while the microwave generator is operating at full power.  
The filament heat-up time for magnetrons is not included.
6. The initial and final water temperatures are 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:

$$P = 4187 \times \Delta T / t$$

- $\Delta T$  is actual temperature rise.
- $t$  is the heating time.

The power measured should be  $600\text{W} \pm 10\%$ .

### CAUTION :

1. Water load should be measured exactly to 1 liters.
2. Input power voltage should be exactly 220 volts as specified.
3. Ambient temperature should be  $20 \pm 2^\circ\text{C}$  ( $68 \pm 3.6^\circ\text{F}$ )



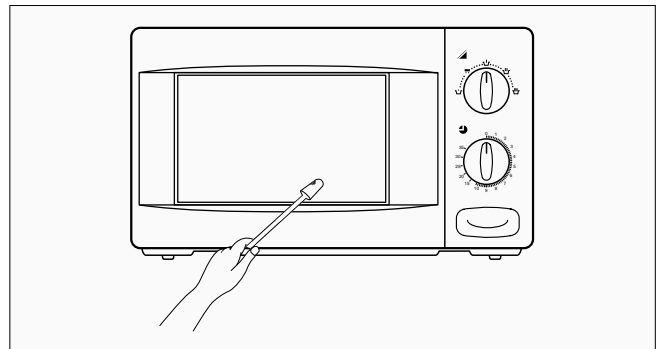
## MICROWAVE RADIATION TEST

### WARNING

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

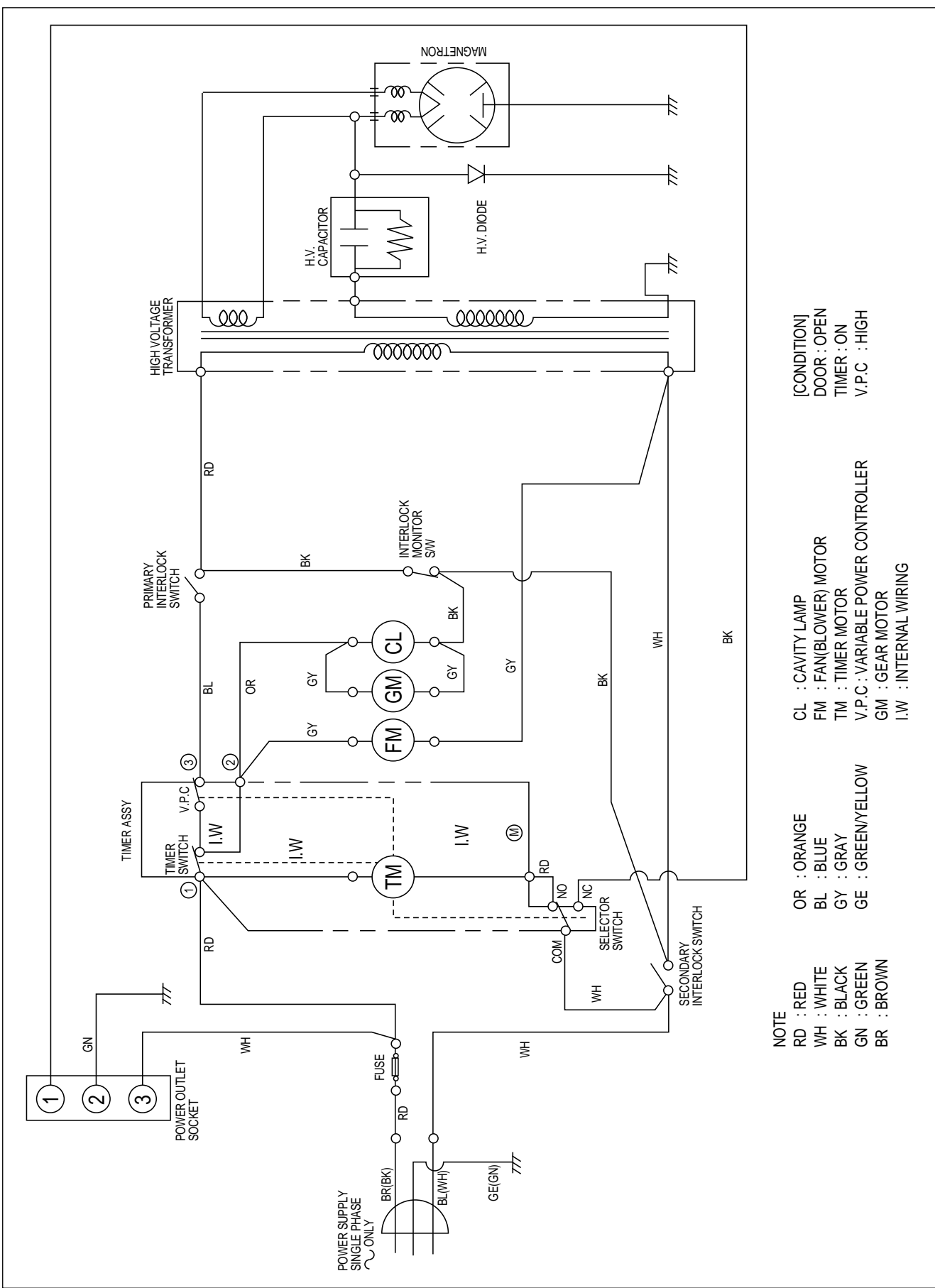
### PROCEDURE

- Prepare Microwave Energy Survey Meter, 600cc glass beaker, glass thermometer 100°C or 212°F.
  - Pour 275cc±15cc of tap water initially at 20±5°C (68±9°F) in the 600cc beaker with an inside diameter of approx. 9.5cm (3.5 in).
  - Place it at the center of the tray and set it in a cavity.
  - Close the door and operate the oven.
  - Measure the leakage by using microwave energy survey meter with dual ranges, set to 2450 MHz.
    - Measured radiation leakage must not exceed the values prescribed below.
    - Leakage for a fully assembled oven with door normally closed must be less than 4mW/cm<sup>2</sup>.
- When measuring the leakage, always use the 2 in (5cm) space cone with probe. Hold the probe perpendicular to the cabinet, door. Place the space cone of the probe on the door, cabinet, door seam, door viewing screen, the exhaust air vents and the suction air vents.
  - Measuring should be in a counter-clockwise direction at a rate of 1 inch/sec. If the leakage of the cabinet door seam is unknown, move the probe more slowly.



- 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 inches from any metal. If it does, erroneous reading may result.

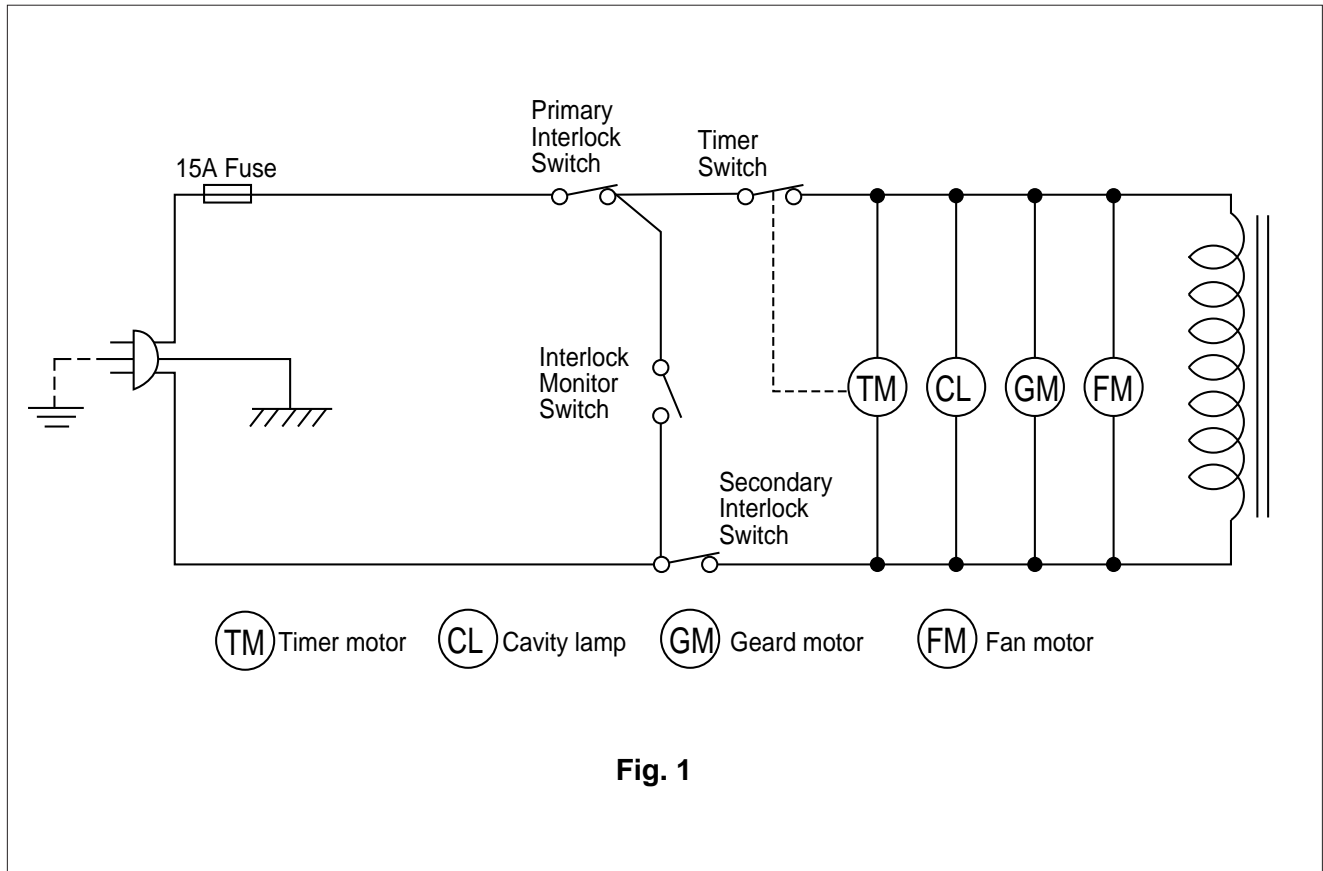
## KOR-6185 WIRING DIAGRAM



## CIRCUIT DESCRIPTION

### 1. When the food is placed in the oven cavity and door is closed.

- The contact of the interlock monitor switch open.
- The contacts of the primary interlock switch and secondary interlock switch close.



### 2. When the timer is set to the time desired.

- The contact of the timer switch close.
  - Oven lamp turn on.
  - 120V AC is applied to the high voltage transformer.
  - Turntable motor start rotating and glass tray rotating.
  - Fan motor rotating and cools the magnetron by blowing air.
  - Timer motor operating and point to passing cooking time.
  - 3.3 Volts AC is generated from the filament winding of the high voltage transformer. This filament voltage is applied to the magnetron to heat the magnetron filament through two noise preventing choke coils.
  - A high voltage of 2000 Volts AC is generated in the secondary of high voltage transformer and this secondary voltage is increased by the action of the diode and the charging of the high voltage capacitor. This resultant D.C voltage is then applied to the anode of the magnetron. As shown in Fig. 2 the first half cycle of the high voltage produces in the high voltage transformer secondary charges the high voltage capacitor. Current flow is in the direction of the dotted-line during the second half cycle, the voltage produced by the transformer secondary, and the charge of the high voltage capacitor are combined and applied to the magnetron as shown by the solid line so that oscillations begins.
- The disturbance wave generated by the magnetron is prevented by the choke coils of 1.5μH, filter capacitors of 500pF and the magnetron's shielded case so that TV and radio programs are not impaired by noise.

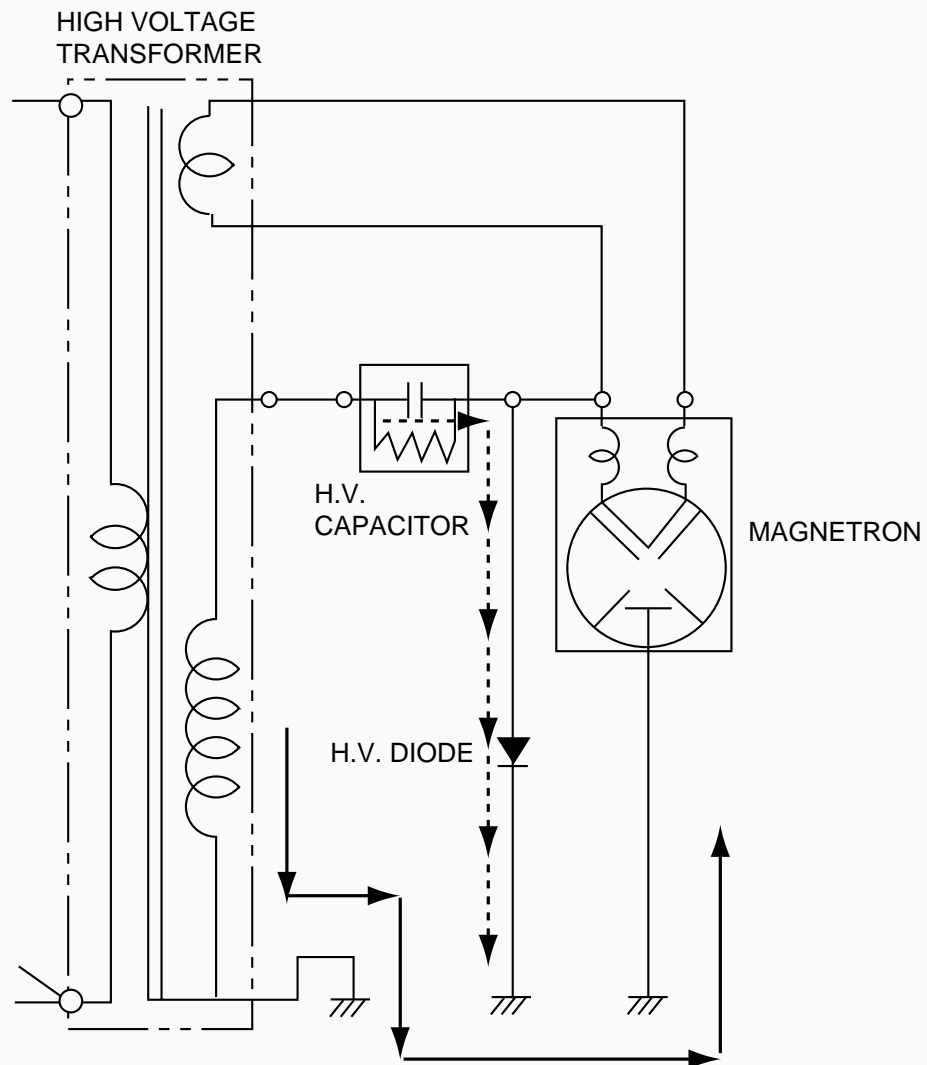


Fig.2

### 3. When the door is opened during cooking.

- Primary interlock switch and secondary interlock switch open to cut off the primary voltage to the high voltage transformer to stop microwave oscillation.
- Fan motor, timer motor and turntable motor stop rotating.
- Oven lamp turn off.
- As soon as the door is opened, monitor switch close(NC) to create the short circuit.  
If the contacts of primary interlock switch and secondary interlock switch are both malfunction, the 15A fuse blows open due to the large current surge caused by monitor switch activation.

## PRECAUTIONS FOR DISASSEMBLY AND REPAIR

– Cautions to be observed when trouble shooting.

Unlike many other appliances, the microwave oven is a 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.

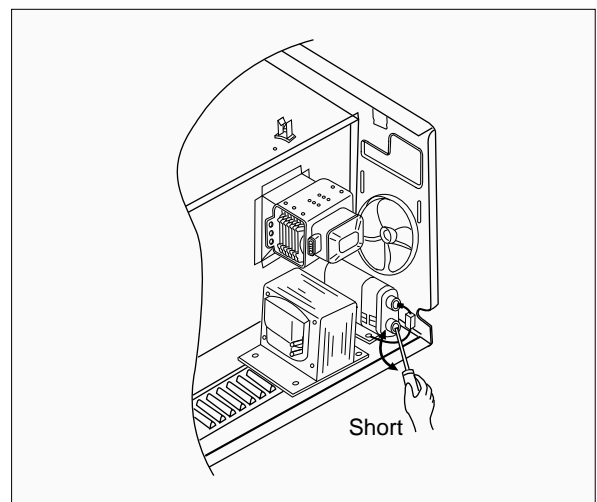
- (1) Always remove the power plug from the outlet before servicing.
- (2) Use an insulated screwdriver and wear rubber gloves when servicing the high voltage side.
- (3) Discharge the high voltage capacitor before touching any oven components or wiring.

### 1. Check the earthed.

Do not operate on a two wire extension cord. The microwave oven is designed to be used with 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, an 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 15A fuse is blown out due to the operation of the monitor switch; replace primary, secondary interlock switch and monitor switch.  
Refer to next page for the necessary adjustment.
- (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.

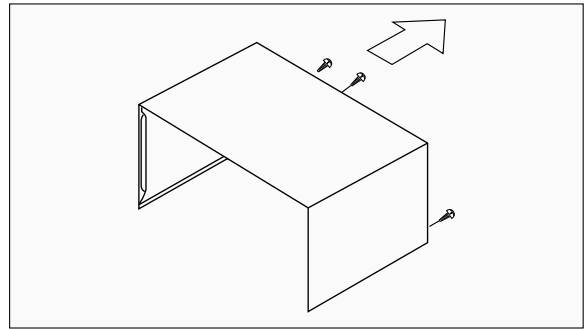
**CAUTION :** Service personnel should remove their watches whenever working close to or repairing the magnetron.

**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-H.V. Transformer, Magnetron, H.V. Capacitor, H.V. Diode.

## DISASSEMBLY AND ASSEMBLY

### 1. To remove cabinet.

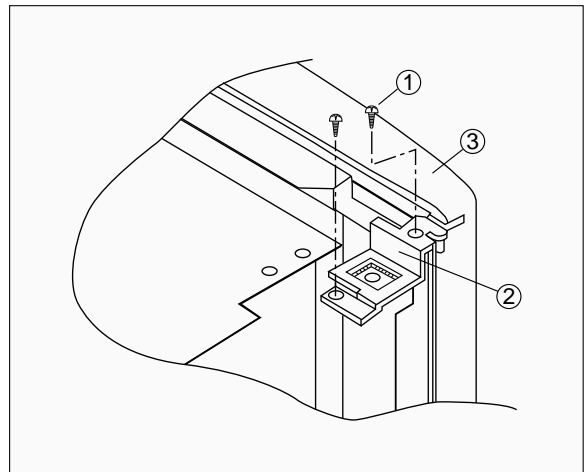
Remove three screws on cabinet back.



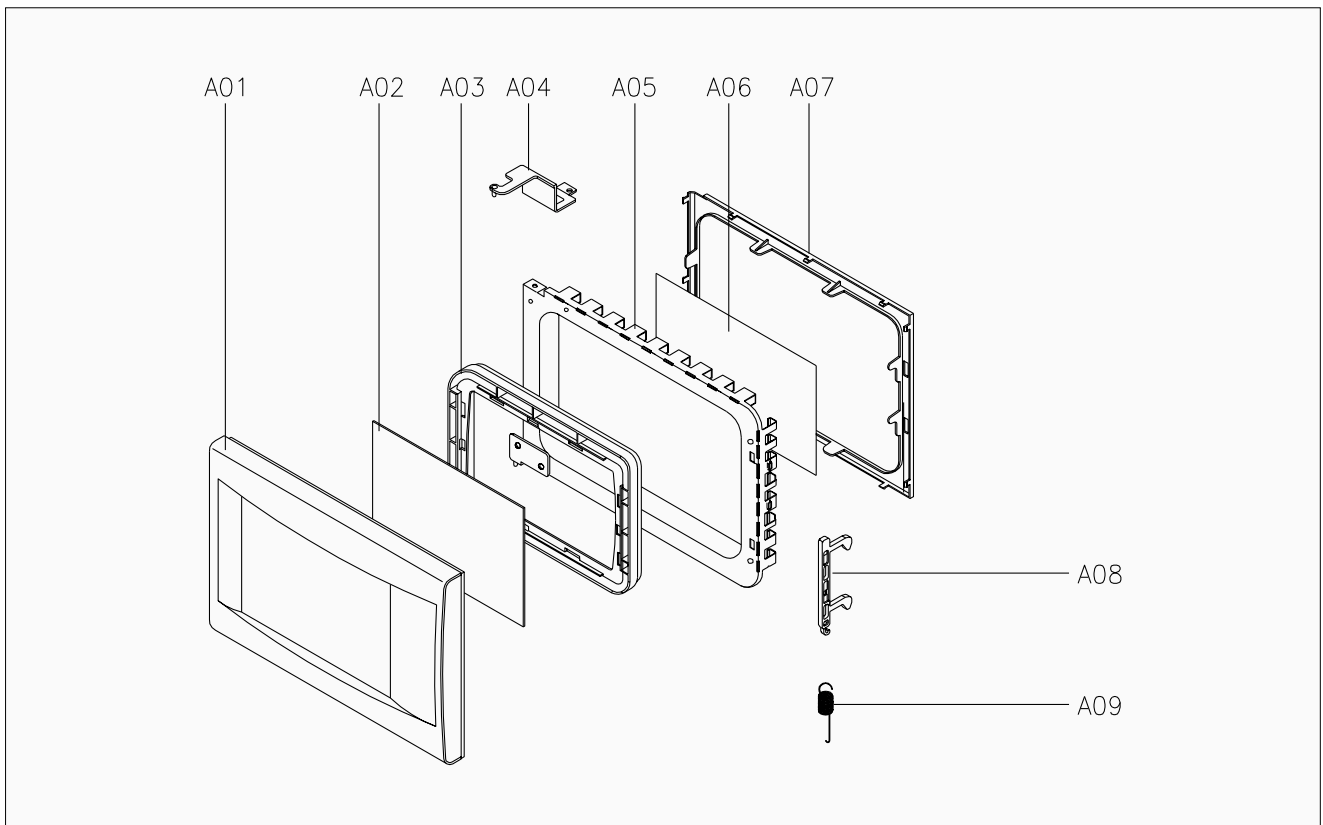
### 2. To remove door assembly.

- 1) Remove two screws ① which secure the stopper hinge top.
- 2) Remove the stopper hinge top ② and door assembly ③ from top plate of cavity.
- 3) Remove the stopper hinge top ② from door assembly.
- 4) Reverse the above for reassembly taking care to replace fixing glue.

**NOTE :** After replacing the door preform a check of correct alignment with the hinge and cavity front face.



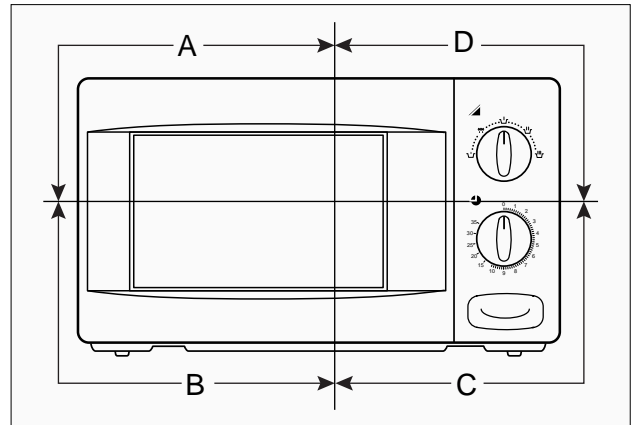
### 3. To remove door parts.



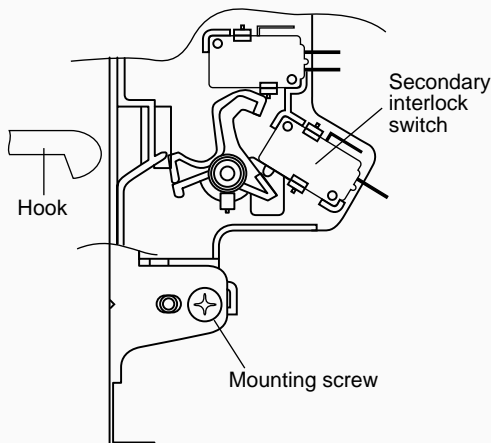
- (1) Remove the gasket door(A07) from door weld ass'y (A05)
- (2) Remove the barrier screen inner(A06) from door weld ass'y(A05).
- (3) Remove the hook spring(A09) and the hook(A08).
- (4) Remove the hinge stopper top ass'y(A04).
- (5) Remove the door frame(A01) from door weld ass'y(A05).
- (6) Remove the barrier screen outer(A02) and the supporter barrier screen outer(A03).
- (7) Reverse the above steps for reassembly.

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

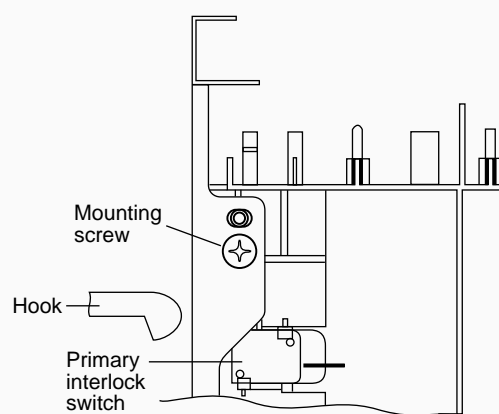
- (1) To reduce gap located on part 'A'
  - 1) Loosen two screws on the top hinge stopper, and then push the door to contact the door seal to oven front surface.
  - 2) Tighten two screws.



- (2) To reduce gap located on part 'B'.
  - 1) Loosen three three screws on bottom hinge, and then the door to contact the door seal to oven front surface.
  - 2) Tighten three screws.
- (3) To reduce gap locatated on part 'C'. (See Fig. A)
  - 1) Loosen a screw on the interlock switch assembly located at the bottom of the oven body.
  - 2) Draw the interlock switch assembly inward as possible to engage with hook on the door bottom.
  - 3) Tighten a screw.
- (4) To reduce gap located on part 'D'. (See Fig. B)
  - 1) Loosen a screw on the interlock switch assembly located at the top of the oven body.
  - 2) Follow step (3) 2) and 3).



**Fig. A**

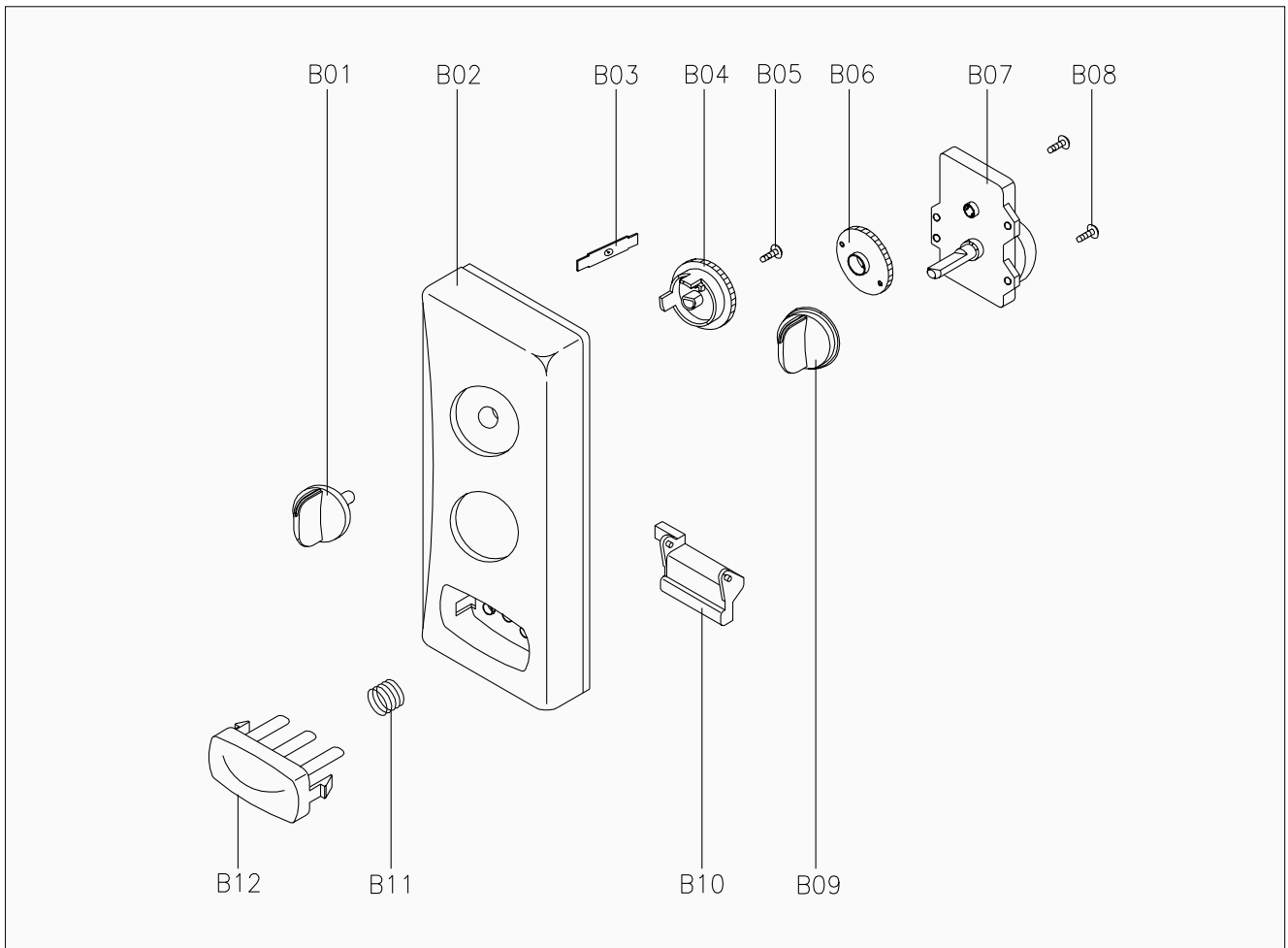
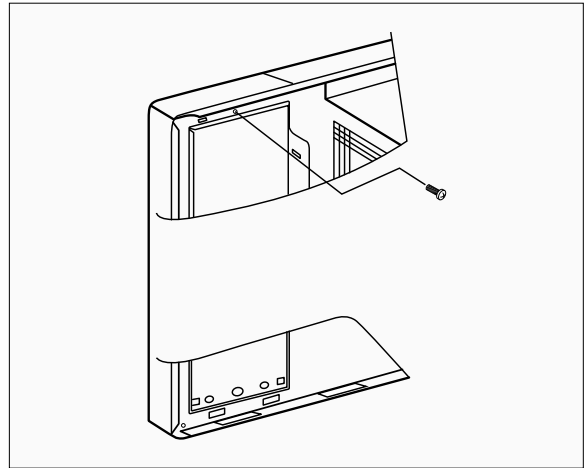


**Fig. B**

**NOTE:** A small gap may be acceptable if the microwave leakage does not exceed 4m W/cm<sup>2</sup>.

## 5. To remove control panel parts.

- (1) Remove the screw which secure the control panel push up two snap fits and draw forward the control panel assembly.

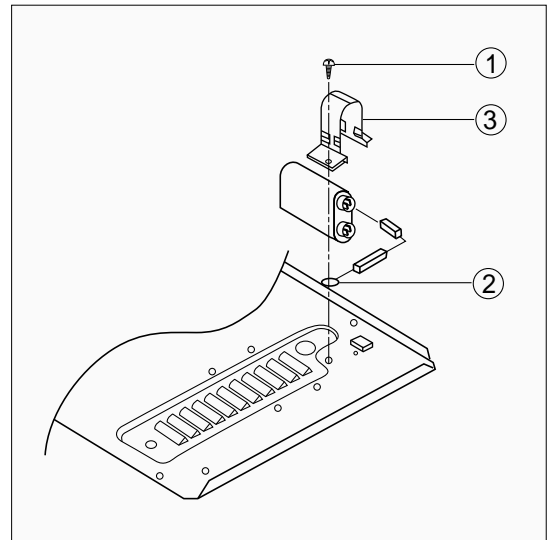


- (2) Remove the screw (B05) which secure the VPC coupler(B04).  
(3) Pull out the VPC coupler(B04), VPC knob(B01) and the flat spring (B03) from the control panel(B02).  
(4) Remove two screws(B08) which secure the timer ass'y(B07).  
(5) Pull out the knob(B09) from the timer ass'y(B07).  
(6) Remove the timer ass'y(B07).  
(7) Pull out the timer coupler(B06) from the timer ass'y(B07).  
(8) Remove the door open button(B12) and button spring(B11) from the control panel(B02).  
(9) Remove the door open lever(B10) from the control panel(B02).  
(10) Reverse the above steps for Reassembly.

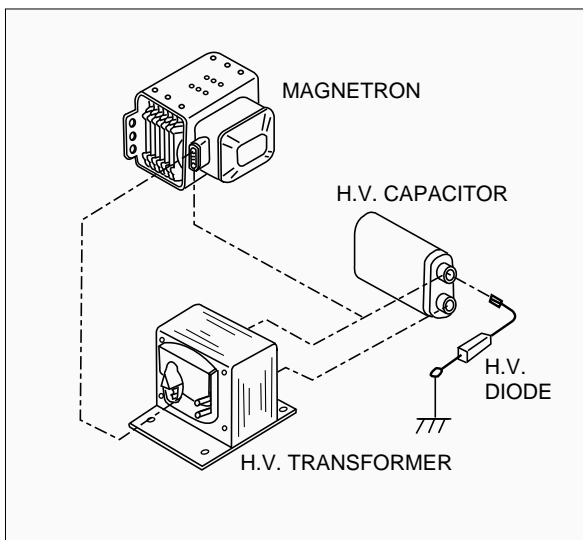


## 6. To remove high voltage capacitor.

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

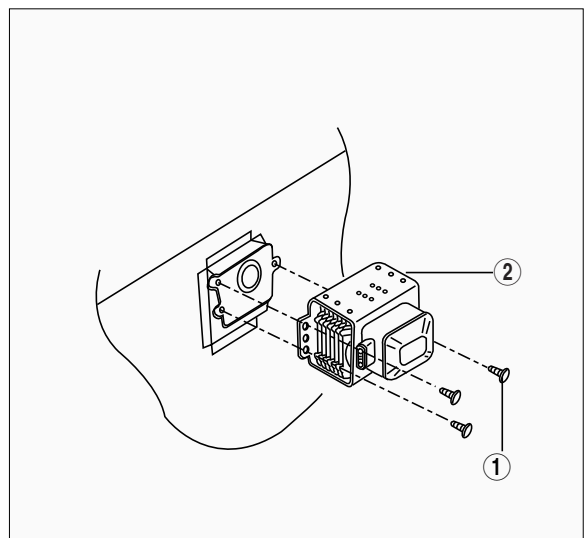


## High voltage circuit wiring

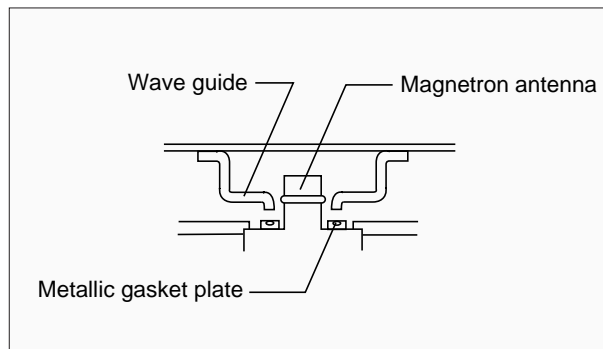
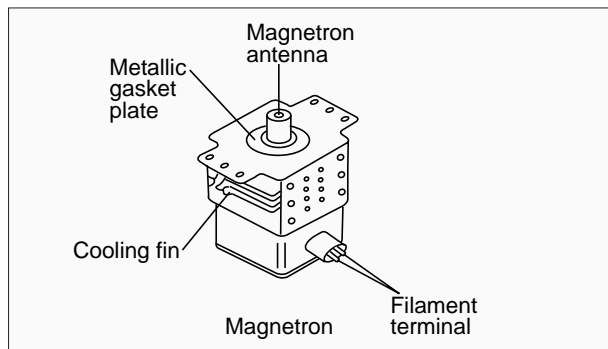


## 7. To remove magnetron.

- (1) Remove three screws ① which secure the magnetron ②.
- (2) Remove the magnetron ②.
- (3) Reverse the above steps for reassembly.

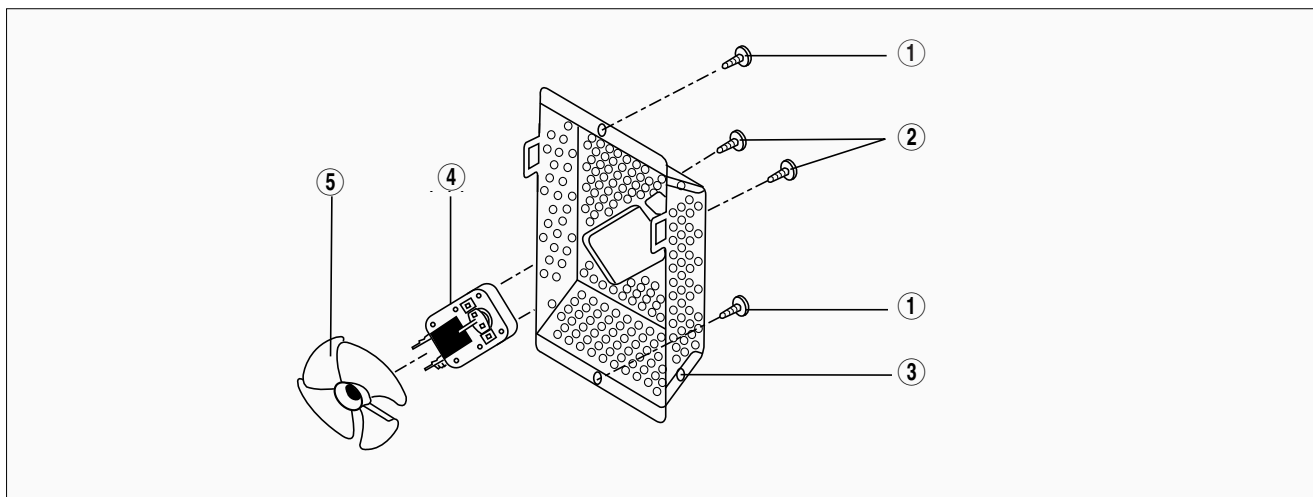


**CAUTION :** Never install the magnetron without the metallic gasket plate which is packed with each magnetron to prevent microwave leakage.  
Whenever repair work is carried out on magnetron, check the microwave leakage.  
It shall not exceed 4mW/cm<sup>2</sup> for a fully assembled oven with door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



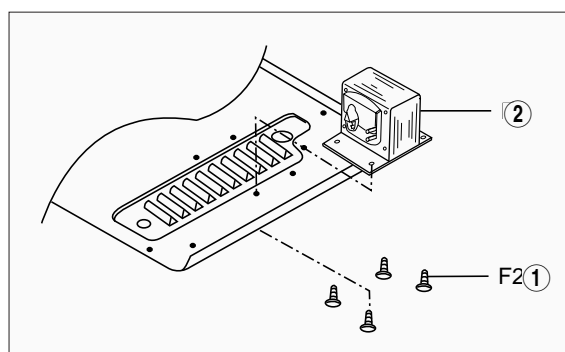
### 8. To remove fan motor assembly.

- (1) Remove two screws ① which secure the back cover ③ from the cavity outer.
- (2) Remove two screws ② which secure the fan motor ④ from the back cover ③.
- (3) Pull out the fan ⑤ from the motor ④.
- (4) Reverse the above steps for reassembly.



### 9. To remove transformer.

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

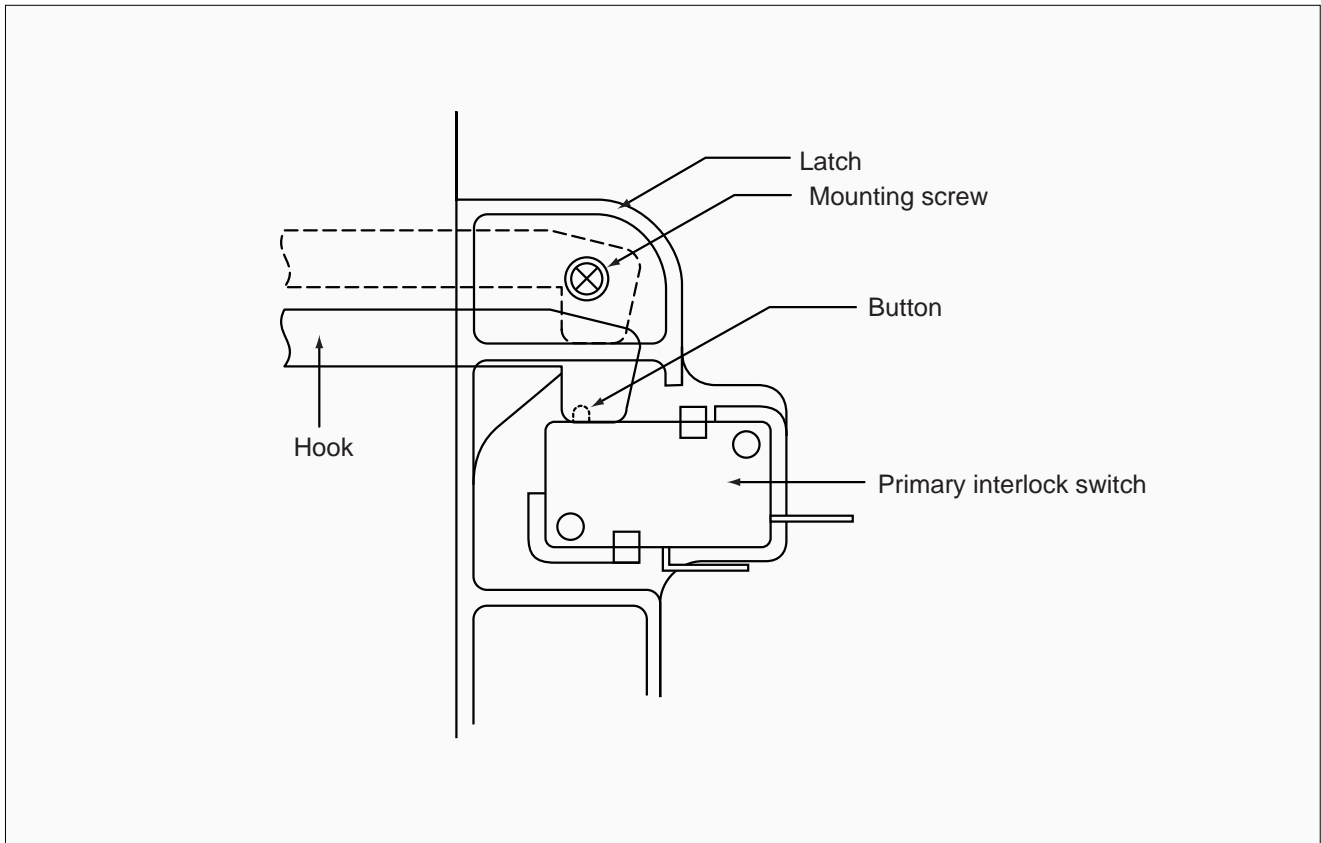


## INTERLOCK MECHANISM

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

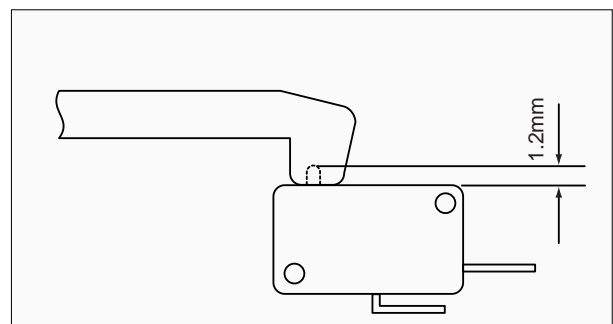
When the door is closed, the hook locks the oven door. If the door is not closed properly, the oven will not operate. When the door is closed, the hook pushed the button of the micro switch. Then the button of the primary interlock switch bring it under on condition.



### Adjustment 1.

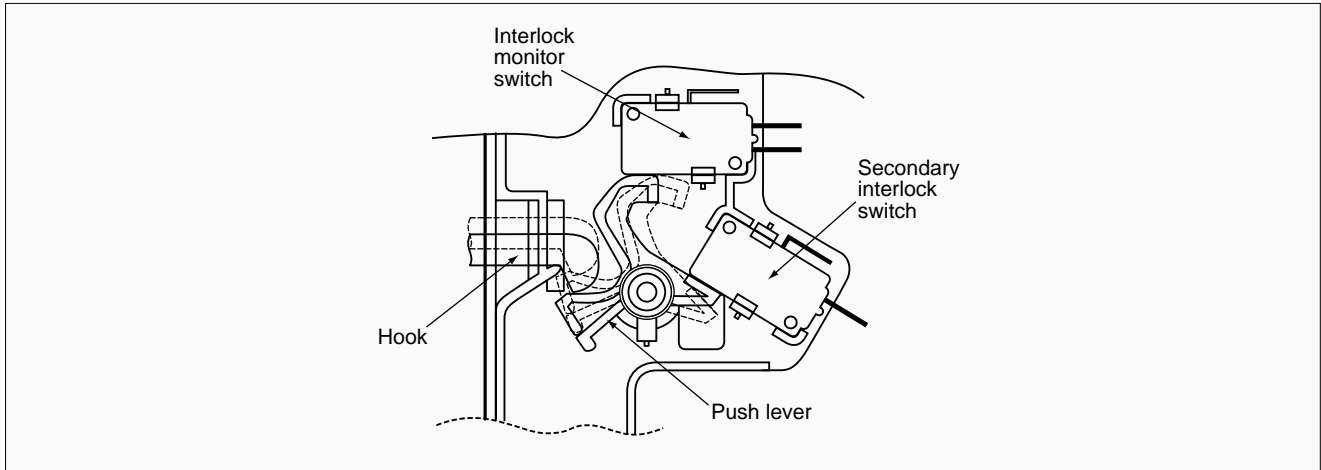
When the door is closed, the switch button is pushed by the hook.

The movement of the switch button should exceed 1.2mm measured at the top of the button.



## (2) Secondary interlock switch and interlock monitor switch

When the door is closed, the hook pushes the push lever down ward, the push lever pressed the button of the monitor interlock switch to bring it under “off”, condition and presses the button of the secondary interlock switch to bring it under “on”, condition.



### Adjustment 2.

#### Interlock monitor switch

When the door is closed, the interlock monitor switch should be opened before other switched close. When the door is opened, the interlock monitor switch should be closed after other switched open.

#### Secondary interlock switch

The movement of the switch button should exceed 1.2mm measured at the top of the button.

### (3) Adjustment steps

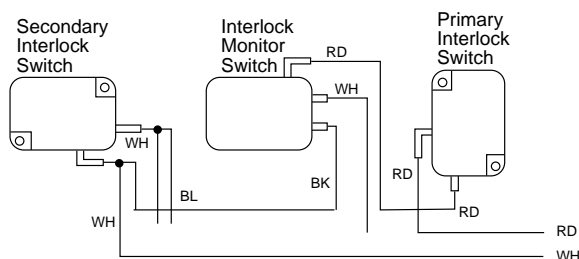
- Loosen the two mounting screws.
- Adjust interlock switch assembly position.
- Confirm the gap(1.2mm) described above.
- Make sure that push lever moves smoothly after adjustments is completed.
- Completely tighten the two mounting screws.

**NOTE :** Microwave emission test should be performed after adjusting interlock mechanism. If the microwave emission exceed 4mW/cm<sup>2</sup>, readjust interlock mechanism.

### (4) Interlock switch replacement

Whenever safety interlock switch are replaced :

- Refer to the following diagram.
- Check the connection of monitor switch after replacement.
- Perform the electrical continuity check of interlock switches and microwave emission test mentioned in this manual.



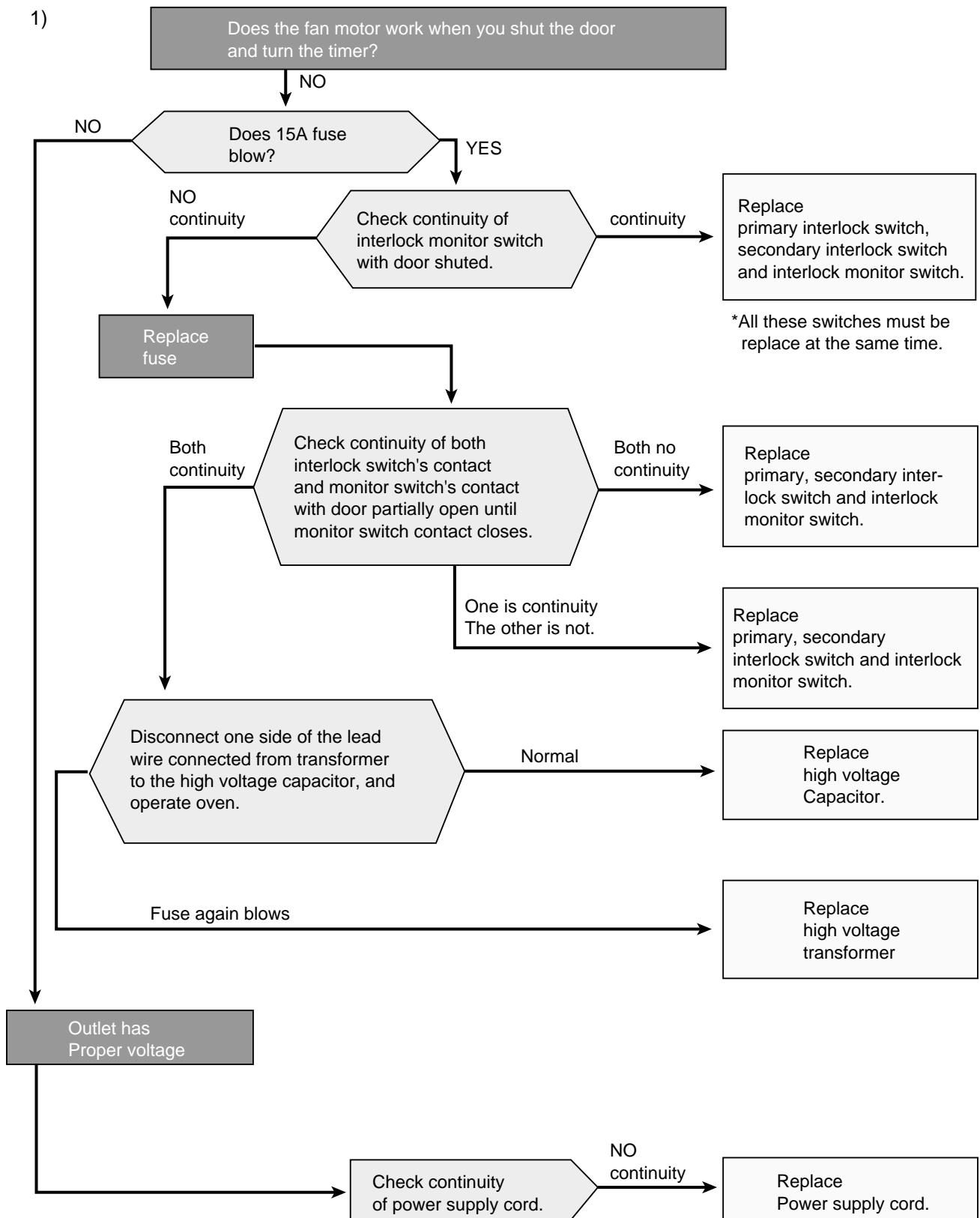
SYMBOL	COLOR
RD	RED
WH	WHITE
BK	BLACK
BL	BLUE

## TROUBLE SHOOTING GUIDE

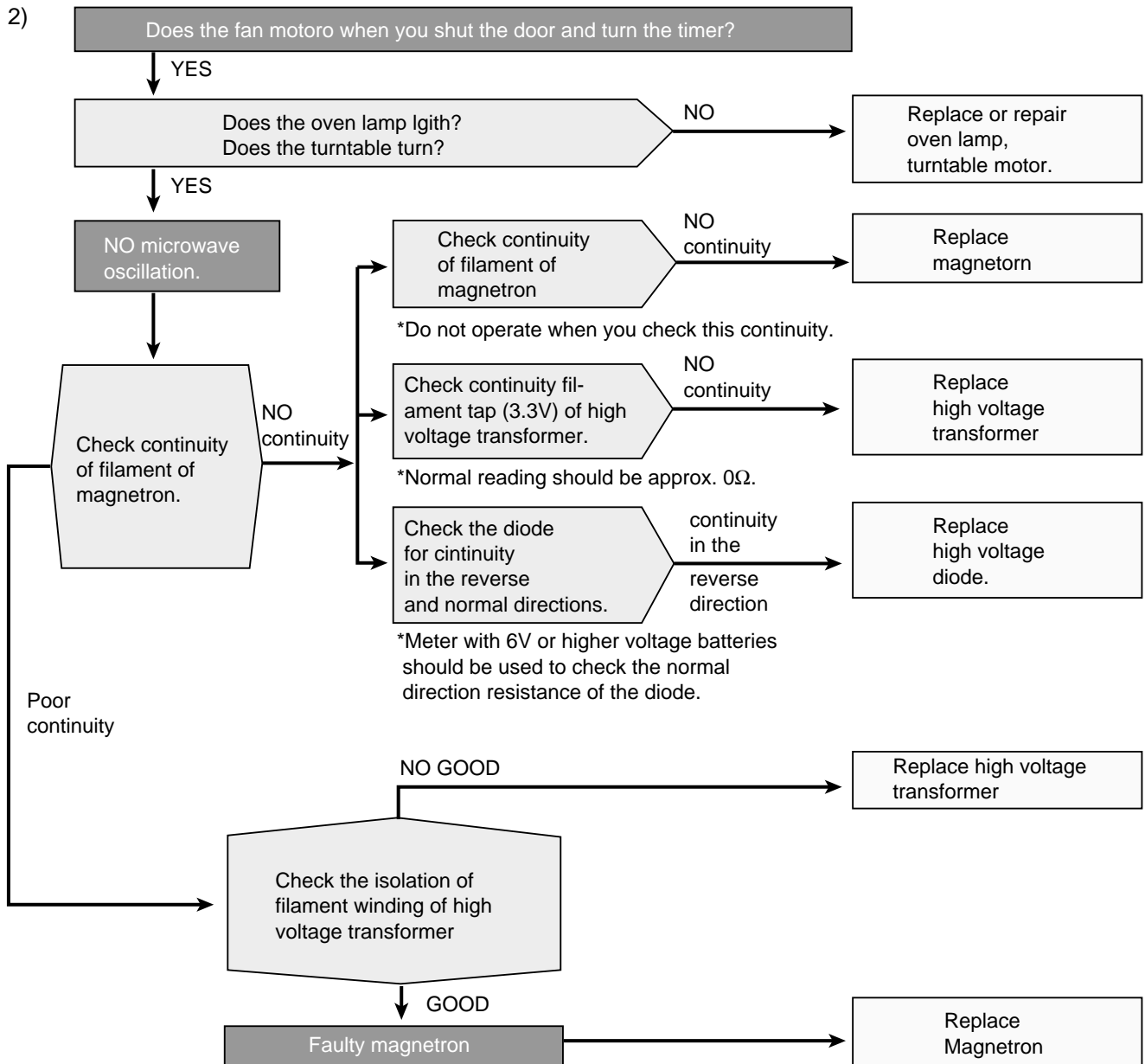
### Trouble

Door shut, timer set but no cooking takes place.

1)



2)



## COMPONENT TEST PROCEDURE

1. High voltage is present at the high voltage terminal of the voltage transformer during any cooking cycle.
2. It is neither necessary nor advisable to attempt measurement of the high voltage.
3. Before touching any oven components or wiring, always unplug the oven from its power source and discharge the capacitor (see page 14).

### 1. High voltage transformer

- (A) Remove connections from the transformer terminals and check continuity.
- (B) Normal readings should be as follows:
  - Secondary winding .....Approx.  $150\Omega \pm 10\%$
  - Filament winding .....Approx.  $0\Omega$
  - Primary winding .....Approx.  $0\Omega$

### 2. High voltage capacitor

- (A) Check continuity of capacitor with meter on the highest OHM scale.
- (B) A normal capacitor will show continuity for a short time, and then indicate  $9M\Omega$  once the capacitor is charged.
- (C) A shorted capacitor will show continuous continuity.
- (D) An open capacitor will show constant  $9M\Omega$ .
- (E) Resistance between each terminal and chassis should be infinite.

### 3. High voltage diode

- (A) Isolate the diode from the circuit by disconnecting the leads.
- (B) 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 "Measure-

ment of the Microwave Output Power". (Page 8)

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

To diagnose for an open filament or shorted magnetron,

- (A) Isolate magnetron from the circuit by disconnecting the leads.
- (B) A continuity check across magnetron filament terminals should indicate 0.1 ohm or less.
- (C) 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.

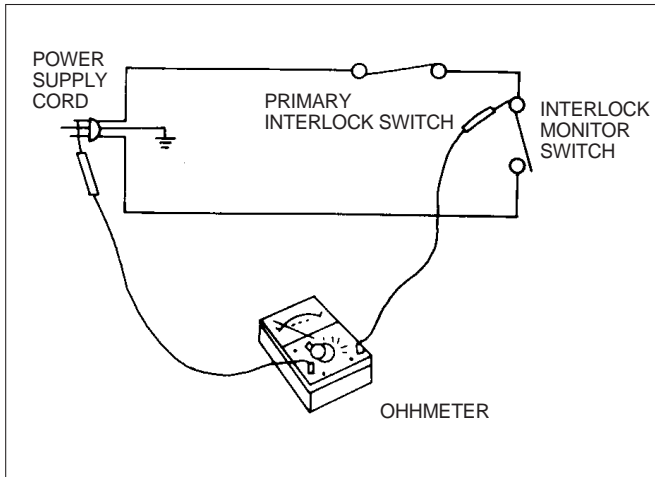
**CAUTION : REPLACE BLOWN FUSE WITH 15 AMPERE FUSE.**

## SAFETY INTERLOCK CONTINUITY TEST

### 6. Interlock switches

- You can test continuity of safety interlocks and monitor switch by using switch tester or ohmmeter.
- The switch operation is checked by zero/unlimited. the meter should indicate zero resistance.
- The sequence of check is interlock monitor switch; primary and secondary interlock switched check.

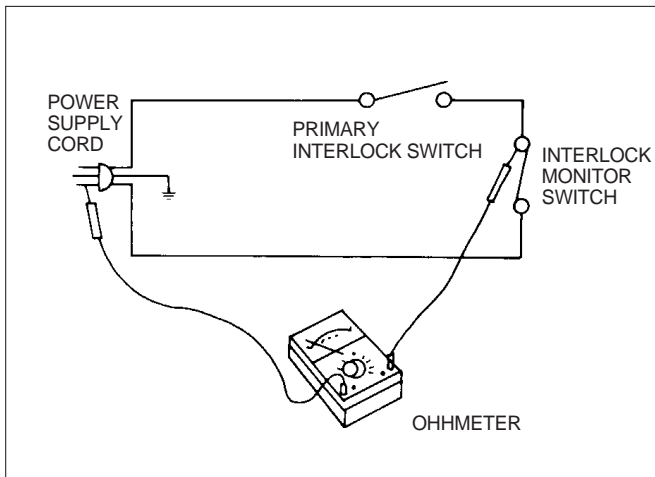
#### 1) In case of interlock monitor switch check



Condition

- 1) Door is opened.
- 2) Common terminal of the monitor switch disconnected.

#### 2) In case of primary interlock switch check.



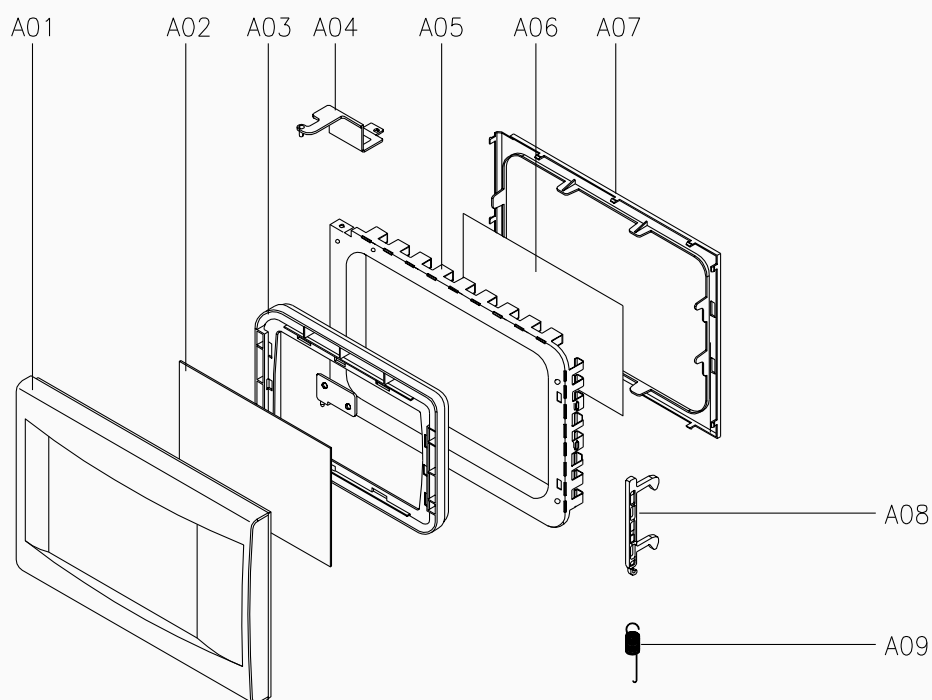
Condition

- 1) Door is closed.



## EXPLODED AND PARTS LIST

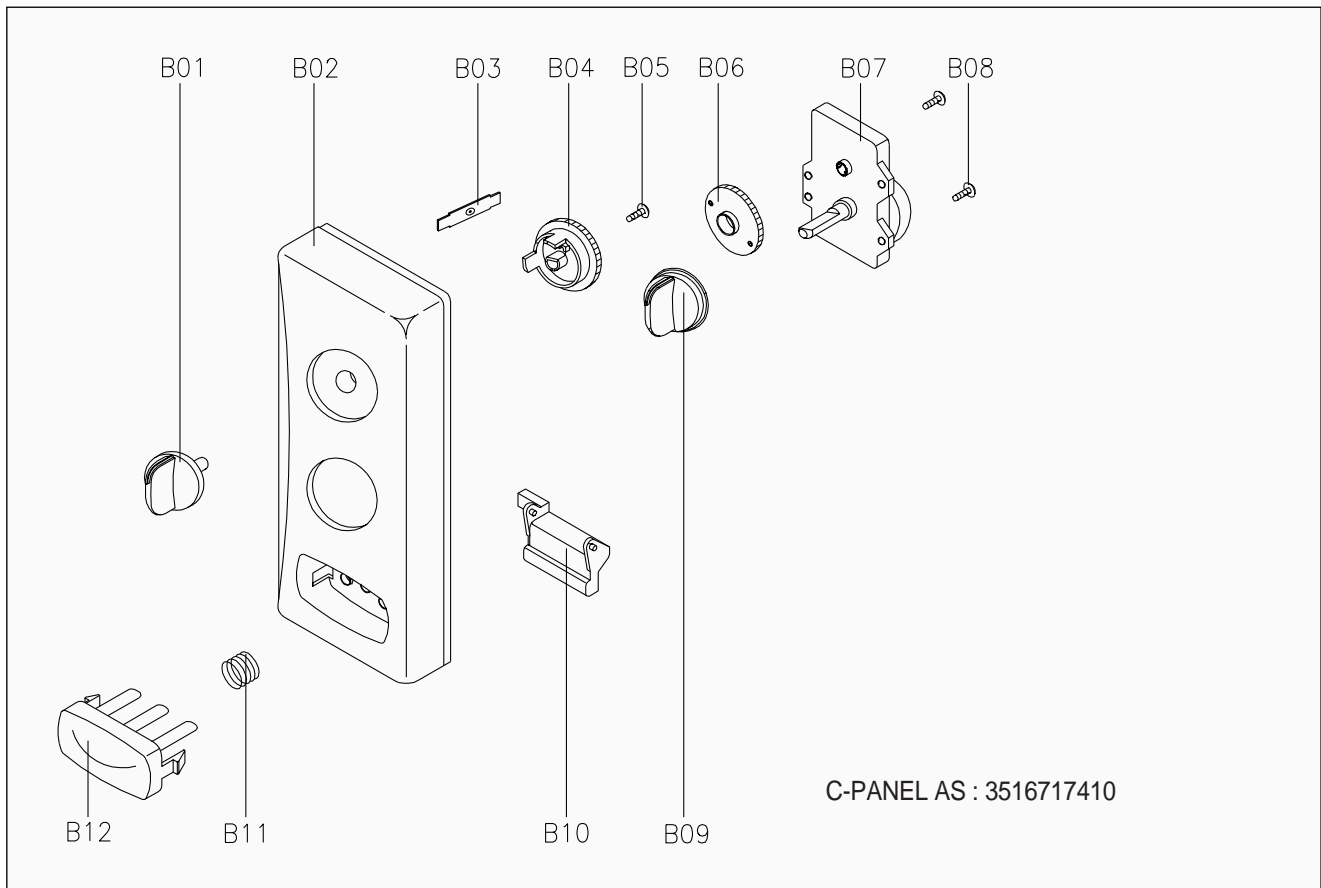
### 1. Door Assembly



DOOR AS : 3511707940

REF NO.	PART NAME	PART CODE	DESCRIPTION	Q'TY	REMARKS
A01	FRAME DOOR	3512202030	ABS	1	KOR-61850A
A02	BARRIER-SCREEN *O	3517003050	ACRYL	1	
A03	SUPPORTER BARR-S *O	3515304610	PP	1	
A04	STOPPER HINGE *T AS	3515201500	KOR-6115OS	1	
A05	DOOR WELD AS	3511705500	KOR-6115OS	1	
A06	BARRIER-SCREEN *I	3517002800	POLYESTER T0.1	1	
A07	GASKET DOOR	3512300200	PP	1	
A08	HOOK	3513100700	POM	1	
A09	SPRING HOOK	3515101300	PW1	1	

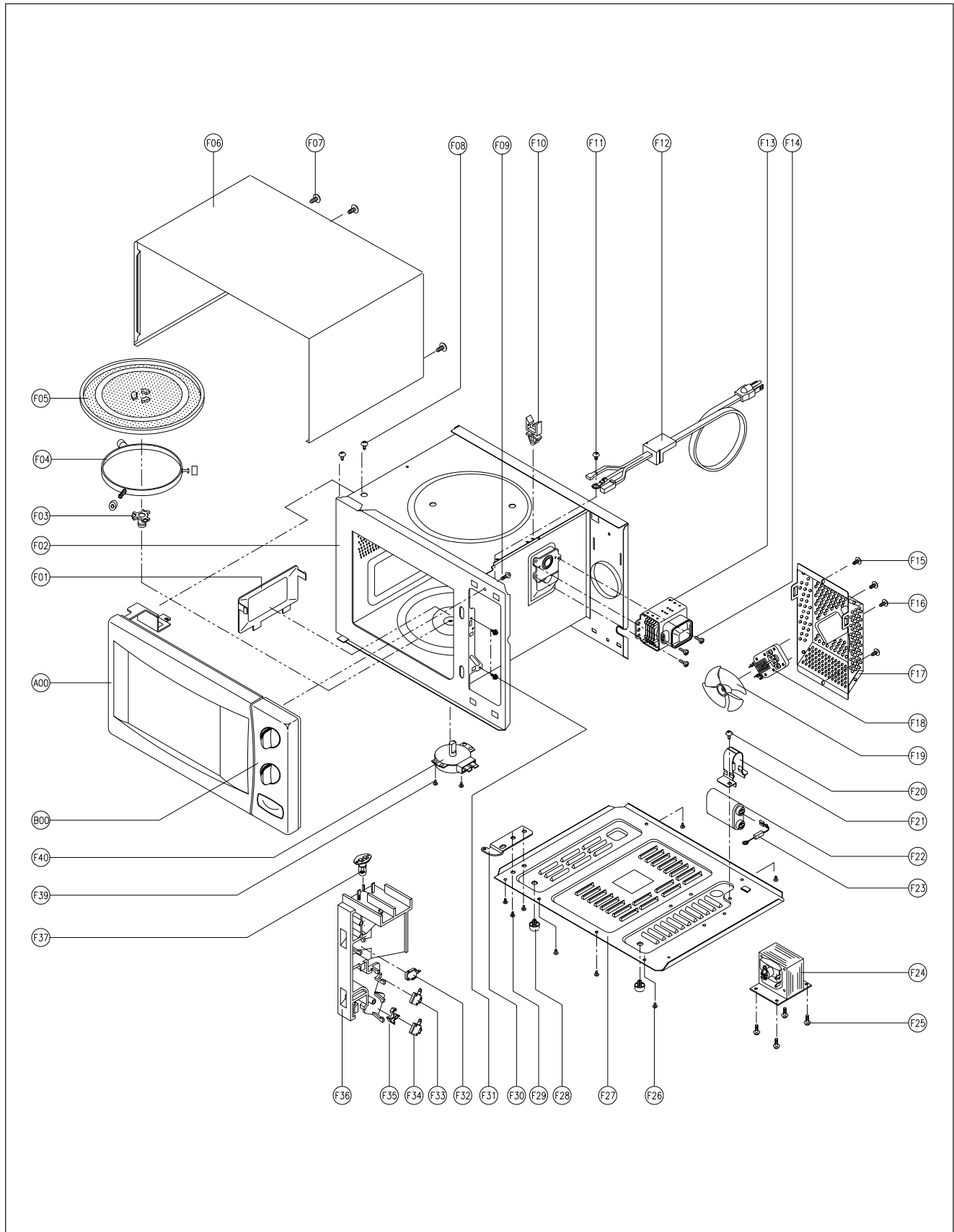
## 2. Control Panel Ass'y



REF NO.	PART NAME	PART CODE	DESCRIPTION	Q'TY	REMARKS
B01	KNOB VPC	3513403520	ABS	1	
B02	CONTROL-PANEL	3516713620	ABS	1	KOR-61850A
B03	SPRING FLAT	3515101600	SUS 301 T0.5	1	
B04	COUPLER VPC KNOB	3517400500	POM	1	
B05	SCREW TAPPING	7122401211	T2STRS 4X12 MFZN	1	
B06	COUPLER TIMER	3517400400	POM	1	
B07	TIMER	3518204300	KN35MKD 15U-P	1	
B08	SCREW TAPPING	7122401211	T2STRS 4X12 MFZN	2	
B09	KNOB	3513403420	ABS	1	
B10	LEVER DOOR OPEN	3513701420	ACETAL	1	
B11	SPRING BUTTON	441G430171	SWP DIA. 0.7	1	
B12	BUTTON DOOR OPEN	3516904440	ABS	1	KOR-61850A

### 3. Main Unit

KOR-6185



## KOR-6185 PARTS LIST

REF NO.	PART NAME	PART CODE	DESCRIPTION	Q'TY	REMARKS
A00	DOOR ASS'Y		EXPLODED AND PART LIST	1	
B00	CONTROL PANEL ASS'Y			1	
F01	COVER WAVE GUIDE	3511403200	PP	1	
F02	CAVITY AS	3516104800	KOR-611500S	1	
F03	COUPLER	3517400600	PPS	1	
F04	GUIDE ROLLER AS	3512510600	KOR-61150S	1	
F05	TRAY	3517203600	GLASS	1	
F06	CABINET	3510801300	PCM T0.6	1	
F07	SCREW TAPPING	7112401011	T1 TRS 4X10 MFZN	3	
F08	SCREW SPECIAL	7272400811	TT3 FLG HEX 4X8 MFZN	2	
F09	SCREW TAPPING	7122401211	T2S TRS 4X12 MFZN	1	
F10	CLAMP POWER CORD	4413A90012	NYLON 66	1	
F11	SCREW SPECIAL	7112401011	T1 TRS 4X10 MFZN	1	
F12	CORD POWER AS	35113NBND5	3X0.75 160-RTML	1	
F13	MAGNETRON	3518002200	2M218H (MF) I	1	
F14	SCREW SPECIAL	3516002700	T2S FLG HEX 4X13 SE MFZN	3	
F15	SCREW TAPPING	7112401011	T1 TRS 4X10 MFZN	2	
F16	SCREW MATCHINE	7601400811	PAN 4X8 PW MFZN	2	
F17	COVER * B	3511402510	SBHG T0.8	1	
F18	MOTOR SHADED POLE	3963820110	120V 17W MW10XA-R01	1	
F19	FAN	3511800300	PP+30% GLASS	1	
F20	SCREW TAPTITE	7272400811	TT3 TRS 4X8 MFZN	1	
F21	HOLDER HV CAPACITOR	3513001900	SECC T0.8	1	
F22	CAPACITOR HV	441L267010	2100VAC 0.70μF	1	
F23	DIODE HV	4416V24000	HVR-1X-32B	1	
F24	TRANS HV	3518110640	JMOT-N60A2-61T	1	
F25	SCREW SPECIAL	3516003700	TT3 FLG HEX 4X8 MFZN	1	
F26	SCREW TAPPING	7112401011	T1 TRS 4X10 MFZN	5	
F27	BASE	3510308700	SBHG T0.8	1	
F28	FOOT	3512100900	PP DASF-130	2	
F29	SCREW TAPTITE	7272400811	TT3 TRS 4X8 MFZN	1	
F30	STOPPER HINGE * U	3515201101	SCP-1 T2.5	1	
F31	SCREW TAPPING	7122401211	T2S TRS 4X12 MFZN	1	
F32	SWITCH MICRO	4415A17352	VP-533A-OF	1	
F33	SWITCH MICRO	4415A66600	VP-532A-OF	1	
F34	SWITCH MICRO	4415A17352	VP-533A-OF	1	
F35	LEVER LOCK	3513701300	POM	1	
F36	LOCK	3513805700	POM	1	
F37	LAMP	3513601500	BL 240V 25W T25 C5A H187	1	
F39	SCREW TAPPING	7121400611	T2S PAN 4X6 MFZN	2	
F40	MOTOR SYNCRO	3966820200	120V 2W GM-16-12F17	1	