DAEWOO

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DAEWOO

Service Manual

Microwave Oven

Model: KOR-1P55

DAEWOO ELECTRONICS CO., LTD.
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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 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

CAUTION : This Device is to be Serviced Only by Properly Qualified Service Personnel. Consult the Service Manual for Proper Service Procedures to Assure Continued Safety Operation and for Precautions to be Taken to Avoid Possible Exposure to Excessive Microwave Energy.

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.
   (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 CDRH 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 SECURED. NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN WAVEGUIDE OR ANTENNA WHILE THE DEVICE IS ENERGIZED.

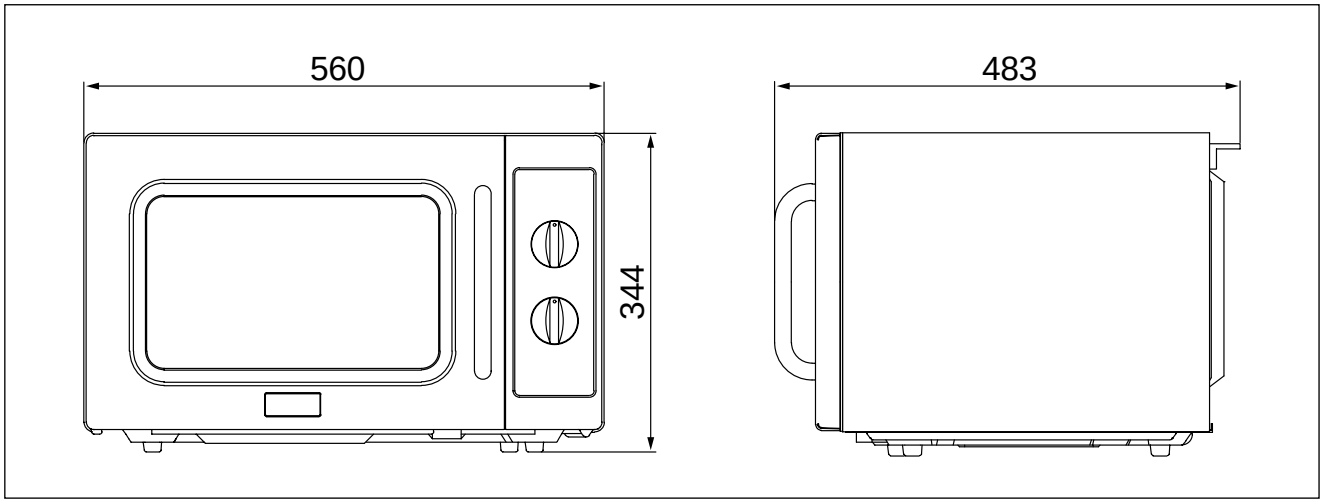
SPECIFICATIONS

MODEL		**KOR-1P55**
POWER SUPPLY		120V~60Hz, SINGLE PHASE WITH EARTHING
POWER CONSUMPTION	MICROWAVE	1,600 W
	GRILL	
	COMBINATION	
MICROWAVE ENERGY OUTPUT		1,100W
MICROWAVE FREQUENCY		2450MHz
OUTSIDE DIMENSIONS (W X H X D)		560 x 344 x 483 mm (22.0 x 13.5 x 19.0 in)
CAVITY DIMENSIONS (W X H X D)		360 x 221 x 400 mm (14.5 x 8.7 x 15.7 in.)
NET WEIGHT		Approx. 16.5 kg (36.4 lbs.)
TIMER		10 min. Single Speed
FUNCTION SELECTIONS		MICROWAVE
POWER SELECTIONS		5 LEVELS
CAVITY VOLUME		1.2 Cu. Ft.

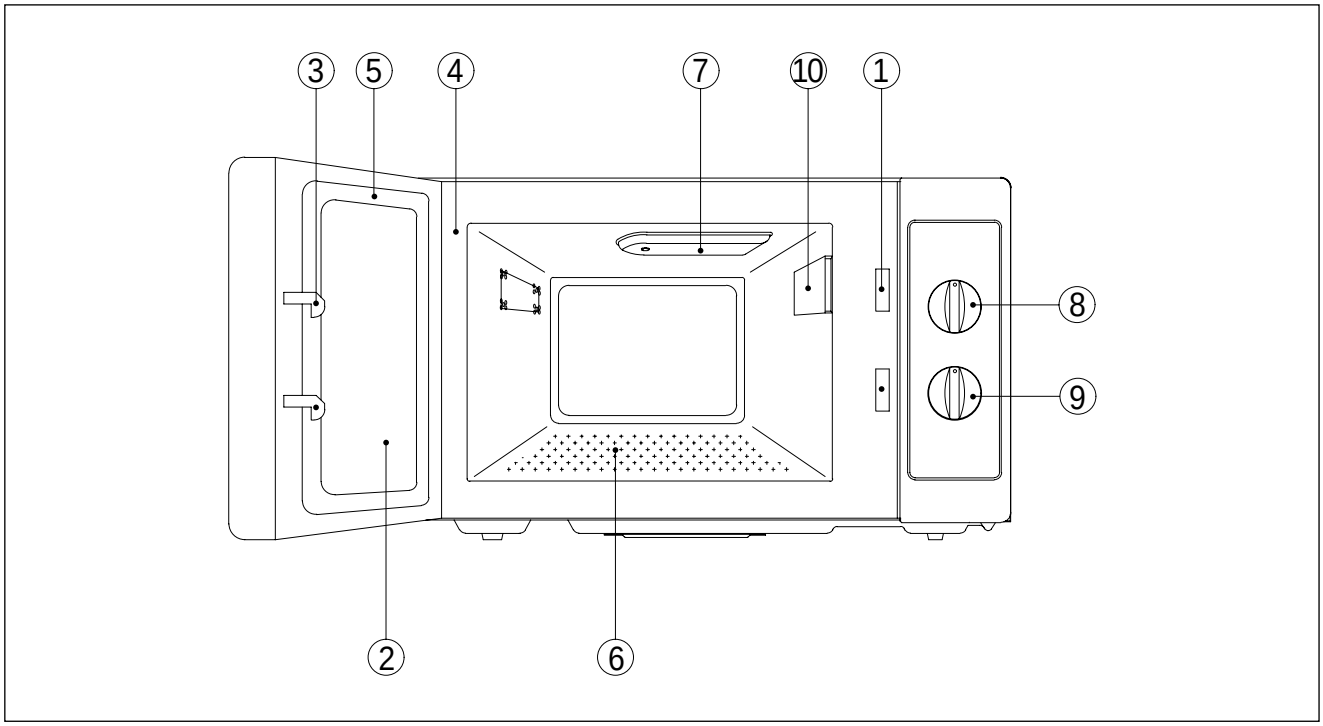
** SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.*

EXTERNAL VIEW

1. OUTER DIMENSION



2. FEATURE 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 off. If the door is opened while the oven is operating, the automatically shut off.
4. **Oven cavity**
5. **Door seal -** Door seal maintains the microwave energy within the oven cavity and prevents microwave leakage.
6. **Glass cooking tray -** Made of special heat resistant glass. Food in a proper receptacle is placed on this tray for cooking.
7. **Cover Stirrer -** Protects the microwave outlet from splashes of cooking foods.
8. **Knob V.P.C -** Used to select a microwave power level.
9. **Knob timer -** Used in setting cooking time for all function.
10. **Inlet cover -** Protect the airhole from splashes of cooking foods.

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 be overheated 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, 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 14.5 amperes, 120Volts, 60Hz grounded outlet.

1. A short power-supply cord is provided to reduce the risks resulting from becoming entangled in or trippping over a longer cord.

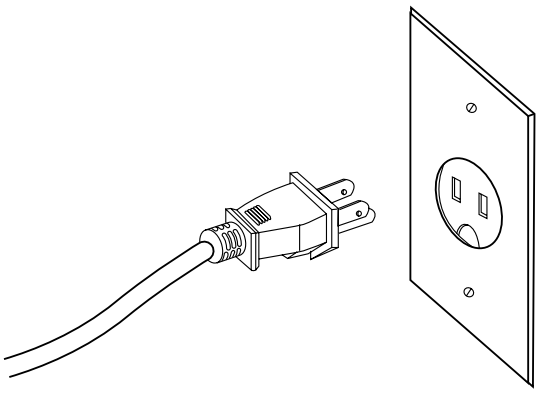
2. Longer cord sets or extension cords are available and may be used if care is exercised in their use.

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.

   3) The longer cord should be arranged so that it will not drape over the counter top or tabletop where it can be pulled on by children or tripped over unintentionally.



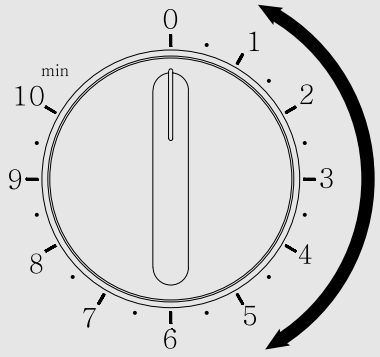
6. Examine the oven after unpacking for any damage such as:

A misaligned door, broken door or a dent in cavity.
If any of the above are visible, DO NOT INSTALL, and notify dealer immediately.

OPERATIONS AND FUNCTIONS

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.



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

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

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 to the desired position, the V.P.C switch has a cycle (ON/OFF time(sec.)) listed below.

Variable power setting Power level	Approximate Percentage of Power
HIGH	100%
MED HIGH	77%
MEDIUM	55%
LOW STAGE	33%
DEFROST	17%

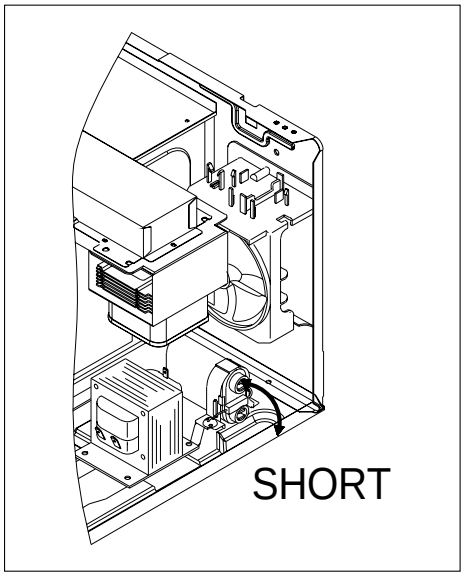
DISASSEMBLY AND ASSEMBLY

Cautions to be observed when trouble shooting.

Unlike many other appliances, the microwave oven is high-voltage, high-current equipment.
It is completely safety 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 2-wire extension cord.
   The microwave oven is designed to be used with 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 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.



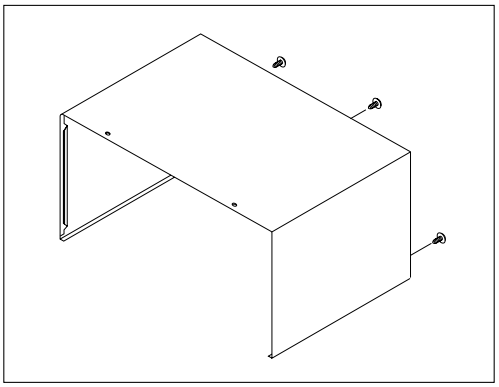
4. When the 15A fuse is blown out due to the operation of the monitor switch; replace primary interlock switch, secondary interlock switch and interlock monitor switch.
5. After repair or replacement of parts, make sure that the screws are properly tightened, and all electrical connections are tightened.
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.

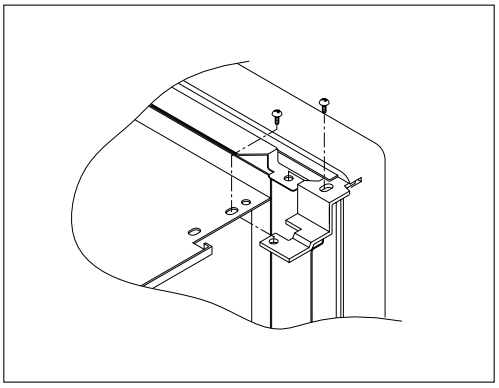
1. To remove cabinet

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



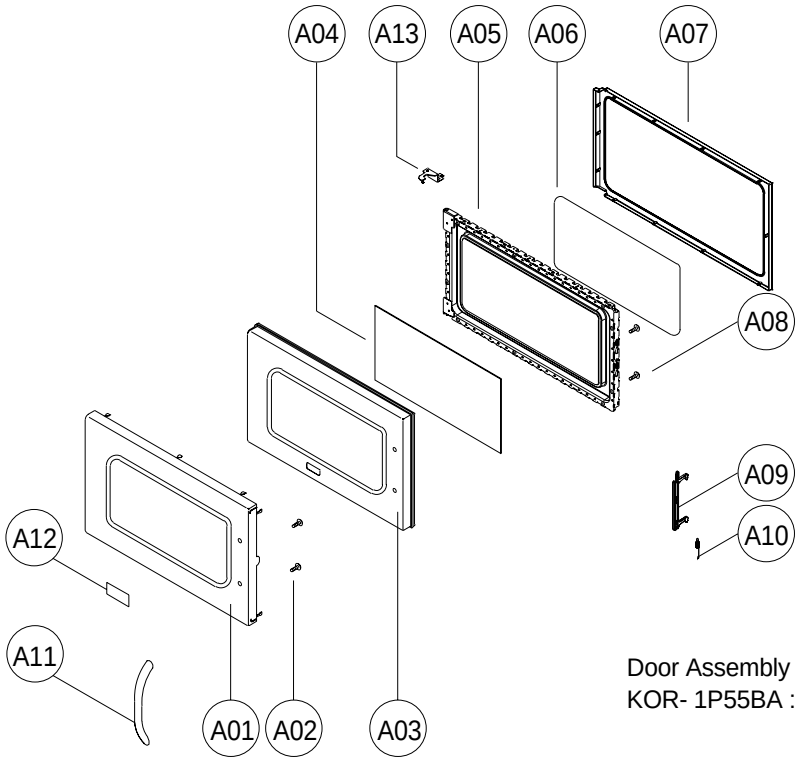
2. To remove door assembly

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 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.



Door Assembly
KOR- 1P55BA : 3511718600

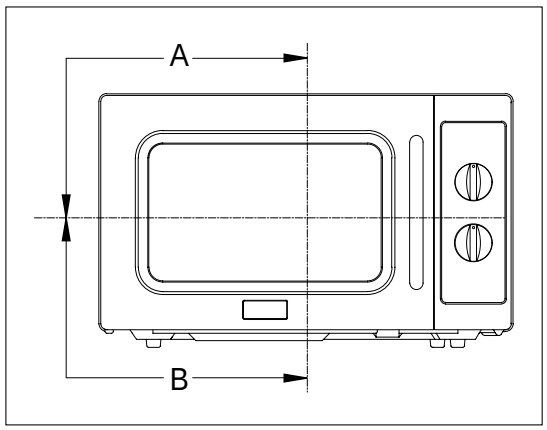
REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
A01	3511610610	DECORATOR DOOR	SUS T0.4	1	
A02	7001401011	SCREW MACHINE	PAN 4*10 MFZN	2	
A03	3512206200	FRAME DOOR	ABS	1	
A04	3517008100	BARRIER SCREEN*O	GLASS T3.2	1	
A05	3516602100	DOOR PLATE	SBHG-1A T0.7	1	
A06	3517007600	BARRIER SCREEN*I	PE T0.1	1	
A07	3512302310	GASKET DOOR	LUPOL2300	1	
A08	3516004100	SPECIAL SCREW	T1 TRS LR4 POLE 4*10 MFZN	2	
A09	3513101200	HOOK	POM	1	
A10	3515101800	SPRING HOOK	PW1	1	
A11	3512604800	HANDLE DOOR	ABS CR COATING	1	
A12	3513586900	LABEL	AL1020 T0.5	1	
A13	3515204900	STOPPER HINGE*T AS	KOC-1B0K0S	1	

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

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

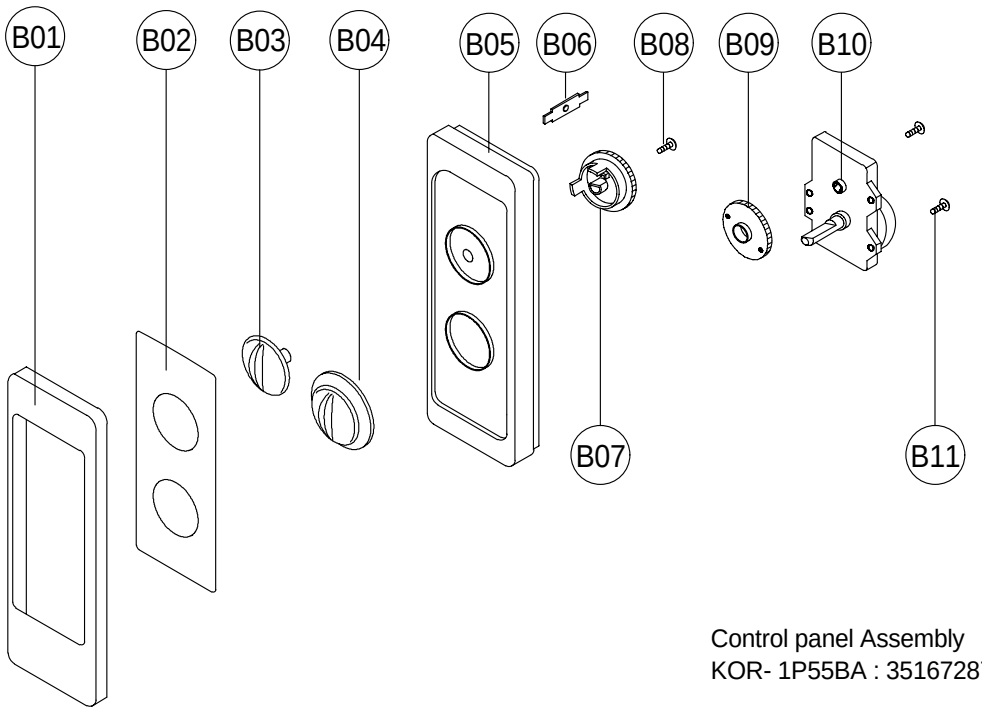
(1) To reduce gap located on part 'A'
- Loosen two screws on stopper hinge top, and then push the door to contact the door seal to oven front surface.
- Tighten two screws.

(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/cm^2.

5. To remove control panel parts.



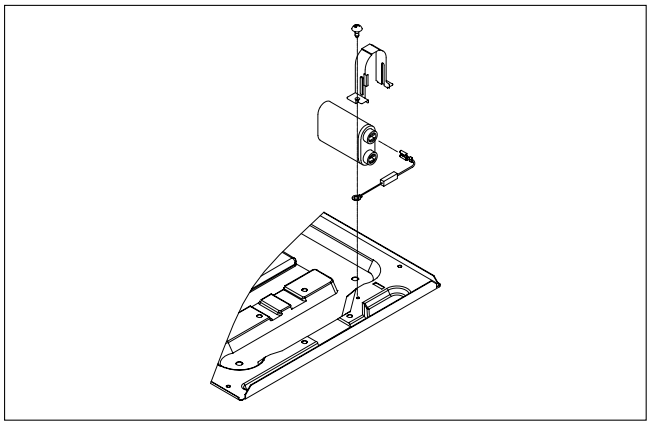
Control panel Assembly
KOR- 1P55BA : 3516728700

REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B01	3511610410	DECORATOR C-PANEL	SUS T0.4	1	
B02	3511611400	DECORATOR FILM	PC T0.5	1	
B03	3513407400	KNOB VPC	ABS SG-0760D COATING	1	
B04	3513407500	KNOB TIMER	ABS SG-0760D COATING	1	
B05	3516728500	CONTROL PANEL	ABS VT-0825	1	
B06	3515101600	SPRING FLAT	SUS 301 T0.5	1	
B07	3517400500	COUPLER VPC KNOB	POM	1	
B08	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	
B09	3517400400	COUPLER TIMER	POM	1	
B10	3518206300	TIMER	NT10MKD01U-P	1	
B11	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	2	

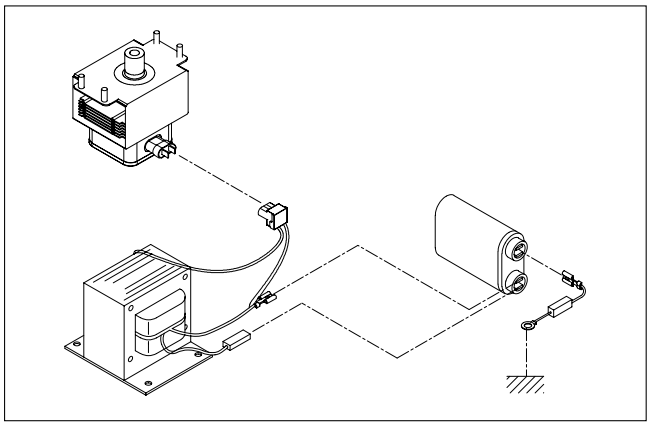
1) Remove the screw which secure the control panel, push up two snap fits and draw forward the control panel assembly.
2) Remove two screws which secure the timer assembly.
3) Remove the timer assembly.
4) Pull out the timer knob from the timer.
5) Pull out the timer coupler from the timer.
6) Remove the screw which secure the V.P.C coupler.
7) Pull out the V.P.C coupler, V.P.C knob and flat spring from the control panel.
8) 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.

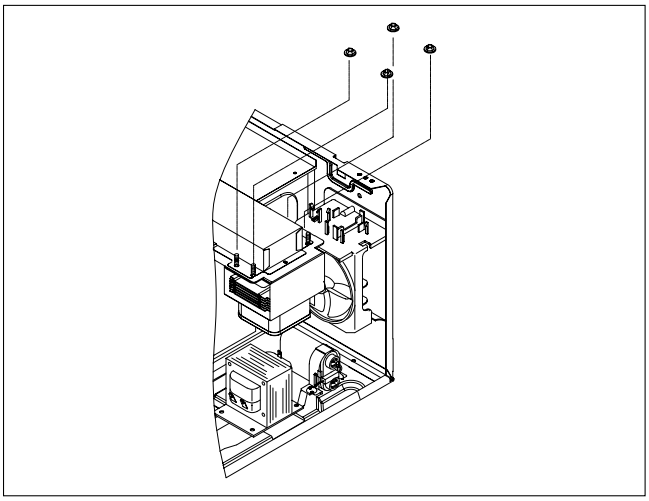


◆ High voltage circuit wiring

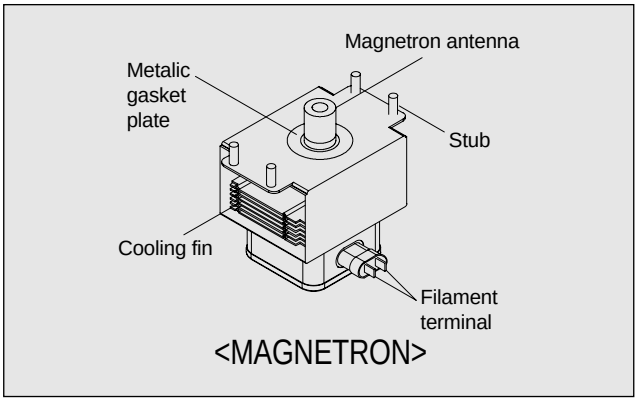


7. To remove magnetron.

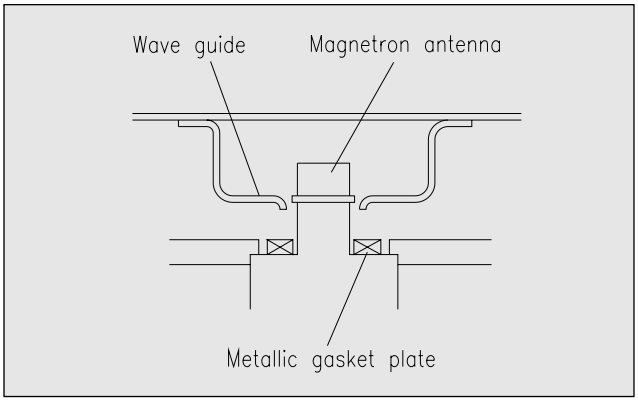
1) Remove four nuts which secure the magnetron.
2) Remove the magnetron.
3) Reverse the above steps for reassembly.



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/cm^2 for a fully assembled oven with door normally closed.

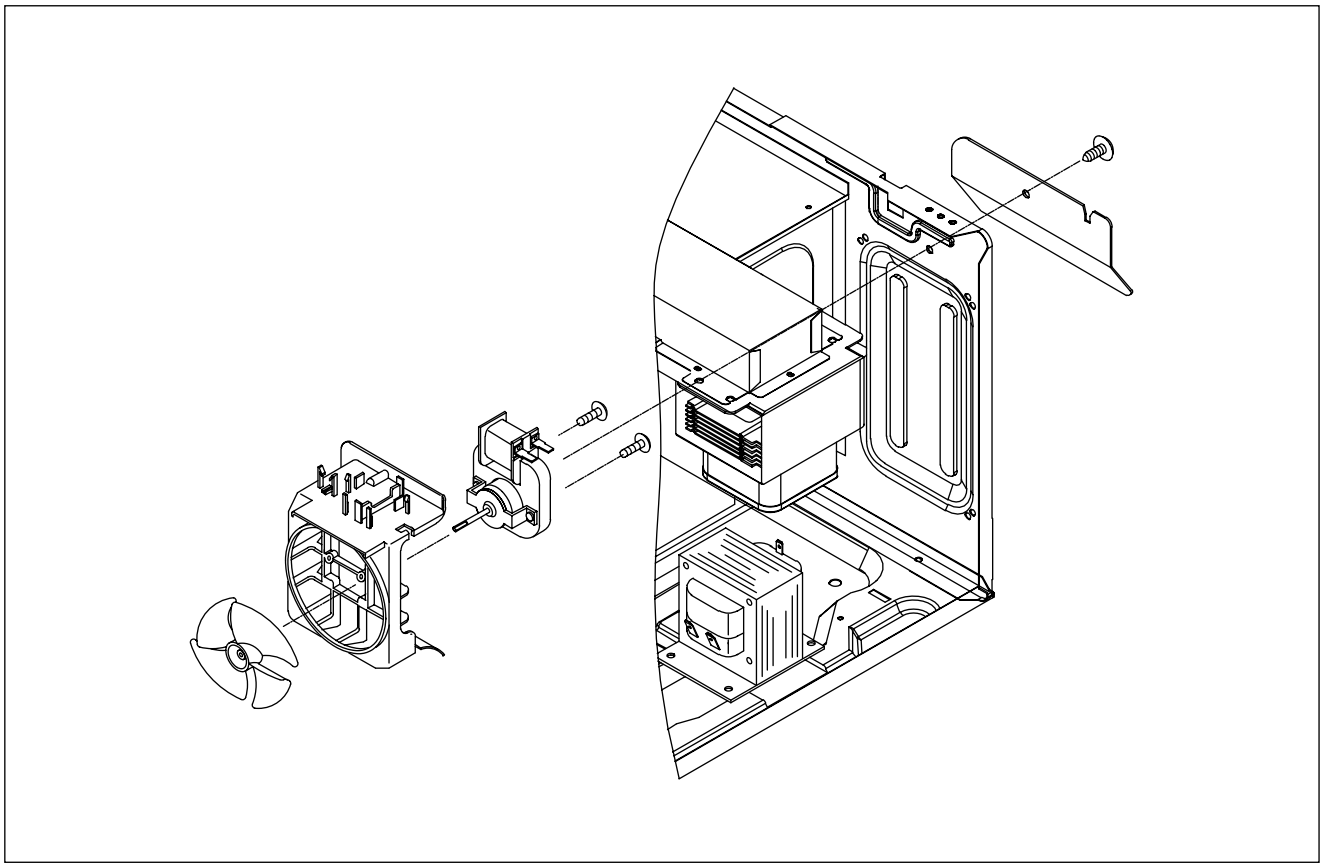


<MAGNETRON>



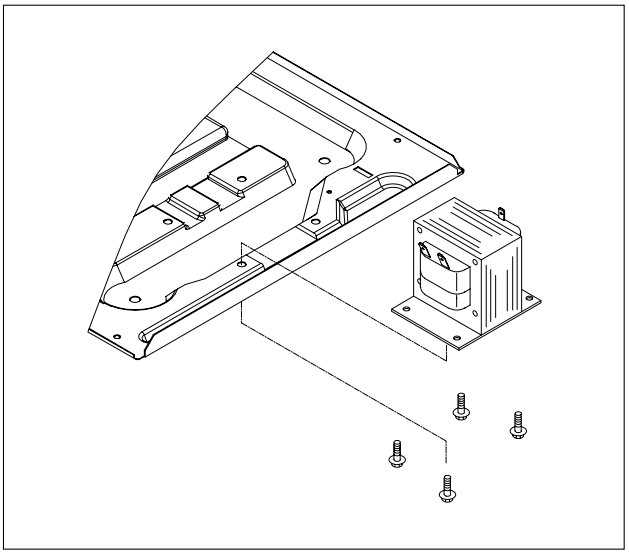
8. To remove wind guide assembly.

1) Remove a screw which secure the wind guide assembly end cover hole *0.
2) Draw forward the wind guide assembly.
3) Pull the fan from the motor shaft.
4) Remove two screws which secure the motor shaded pole.
5) Remove the motor shaded pole.
6) Reverse the above steps for reasembly.



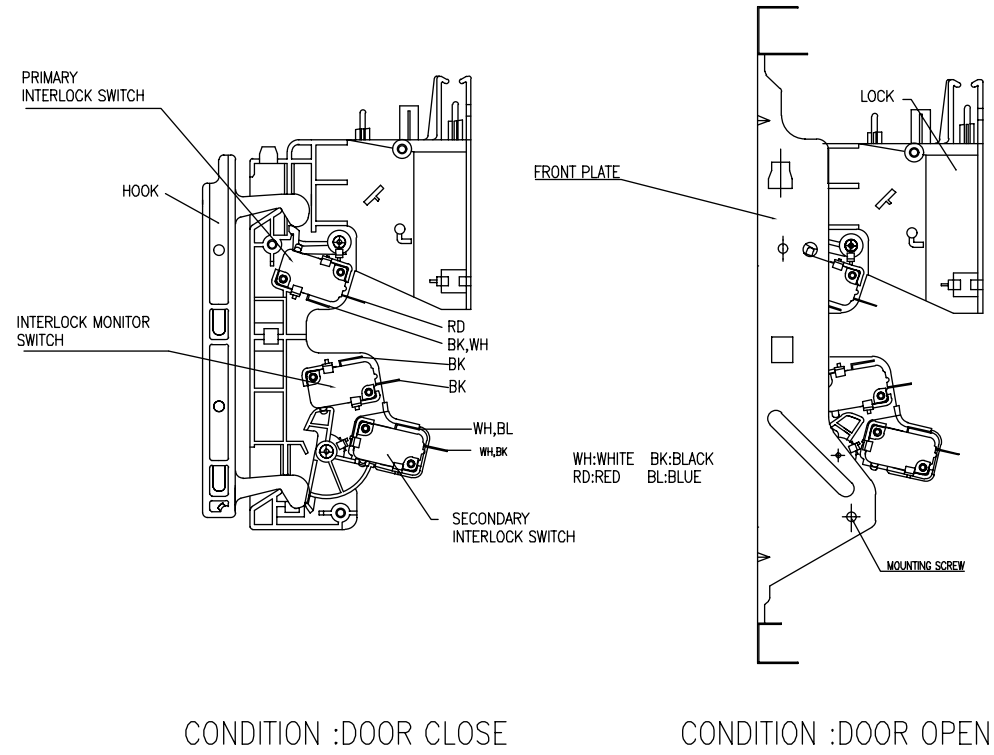
9. To remove H.V.transformer.

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 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 NO 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 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 one mounting screw.
b) Adjust interlock switch assembly position.
c) Make sure that lock lever moves smoothly after adjustment is completed.
d) Tighten completely two mounting screws.

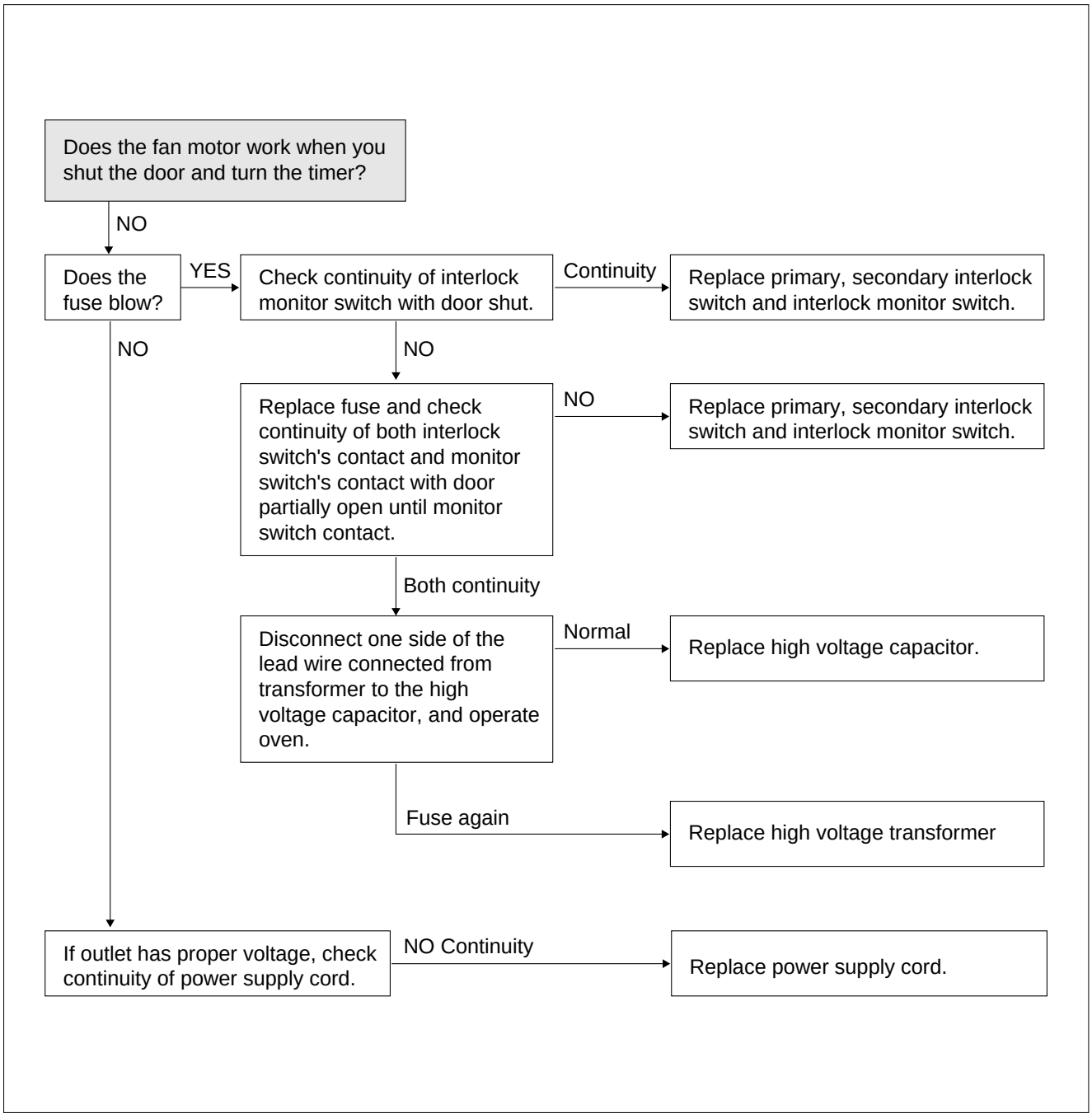
NOTE :
Microwave emission test should be performed after adjusting interlock mechanism.
If the microwave emission exceed 4mW/cm^2, readjust interlock mechanism.

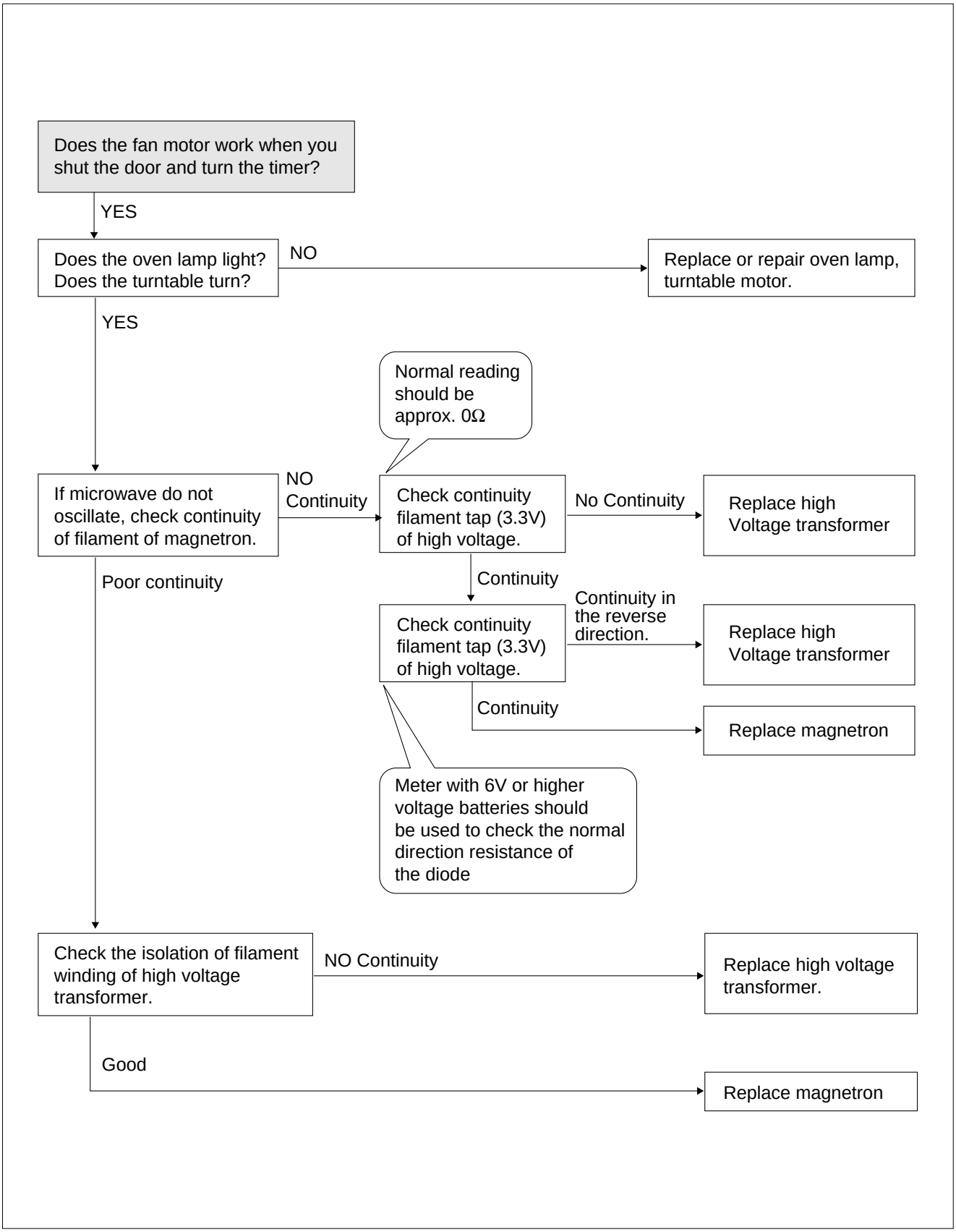
TROUBLE SHOOTING GUIDE

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 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.

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



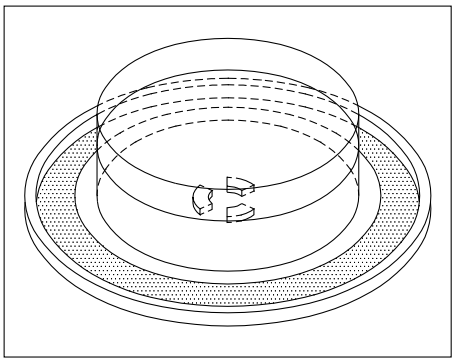

Does the fan motor work when you shut the door and turn the timer?
YES
Does the oven lamp light? Does the turntable turn?
NO
Replace or repair oven lamp, turntable motor.
YES
Normal reading should be approx. 0Ω
If microwave do not oscillate, check continuity of filament of magnetron.
NO Continuity
Check continuity filament tap (3.3V) of high voltage.
No Continuity
Replace high Voltage transformer
Poor continuity
Continuity
Check continuity filament tap (3.3V) of high voltage.
Continuity in the reverse direction.
Replace high Voltage transformer
Continuity
Replace magnetron
Meter with 6V or higher voltage batteries should be used to check the normal direction resistance of the diode
Check the isolation of filament winding of high voltage transformer.
NO Continuity
Replace high voltage transformer.
Good
Replace magnetron

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. 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.
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±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 :

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

   • $\triangle T$ is difference between initial and final 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 liters.
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:

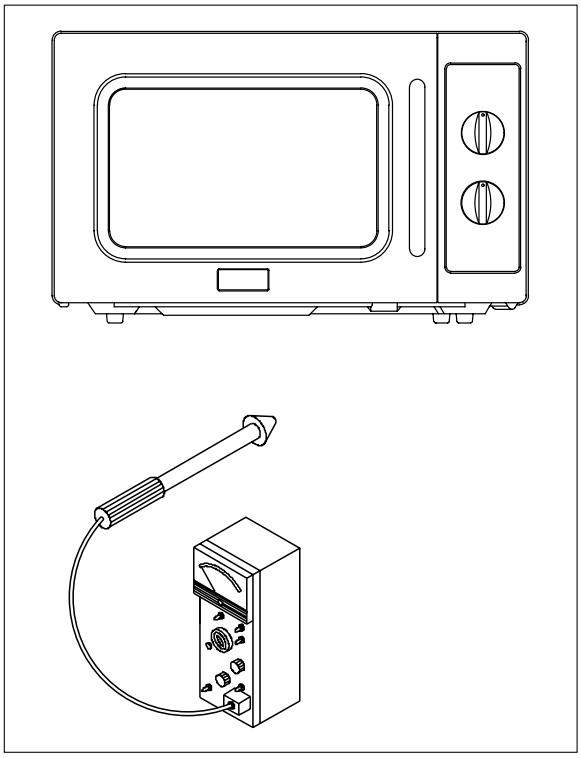
A(second)	70	64	60	56	52	49	47	44	42	40	38
B(W)	600	650	700	750	800	850	900	950	1000	1050	1100

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/cm^2.
   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 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. 110Ω±10%
Filament winding.....Approx. 0Ω
Primary winding .....Approx. 1Ω

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 10MΩ.
(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 KΩ in the other direction.

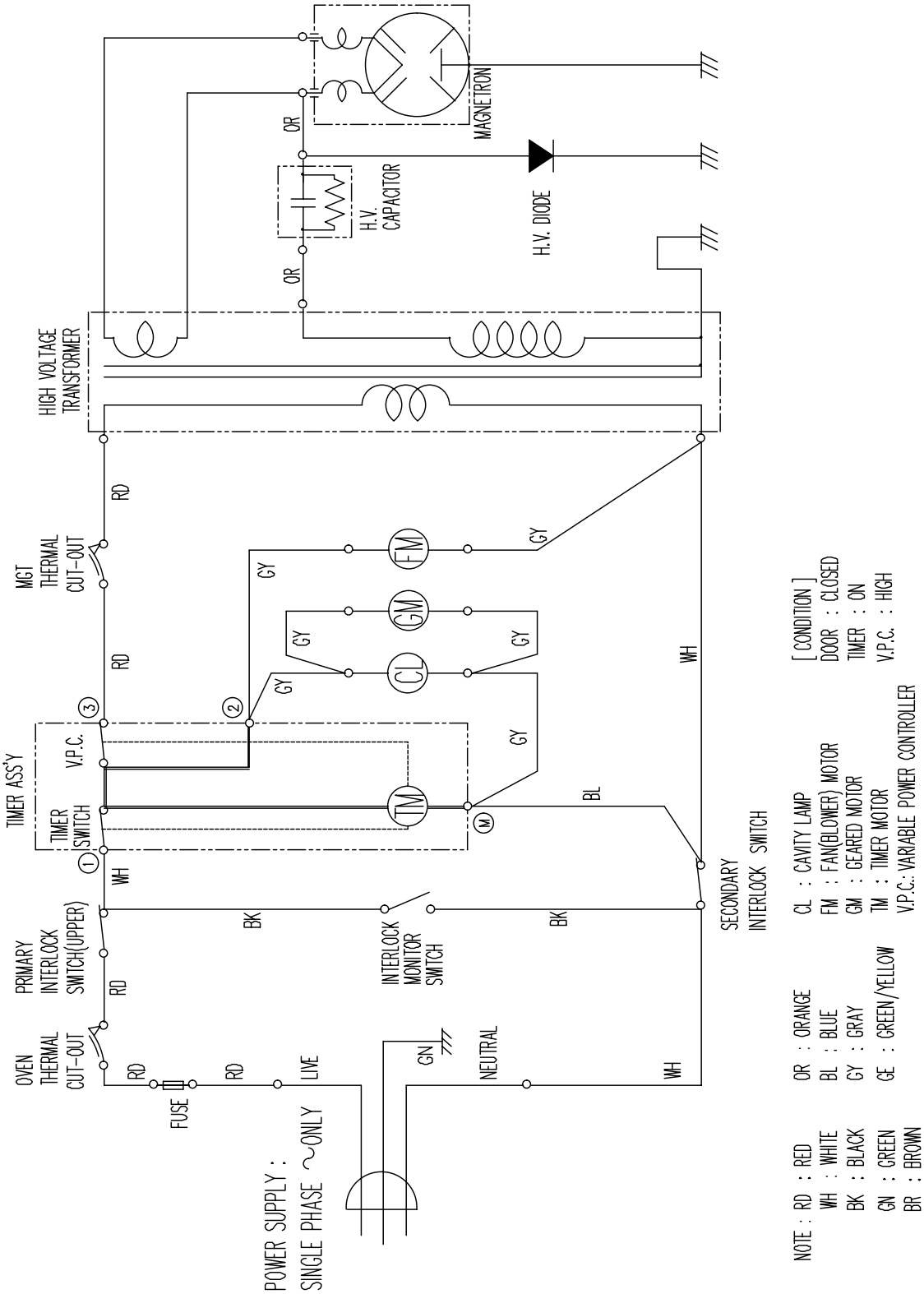
4. Magnetron

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.

WIRING DIAGRAM

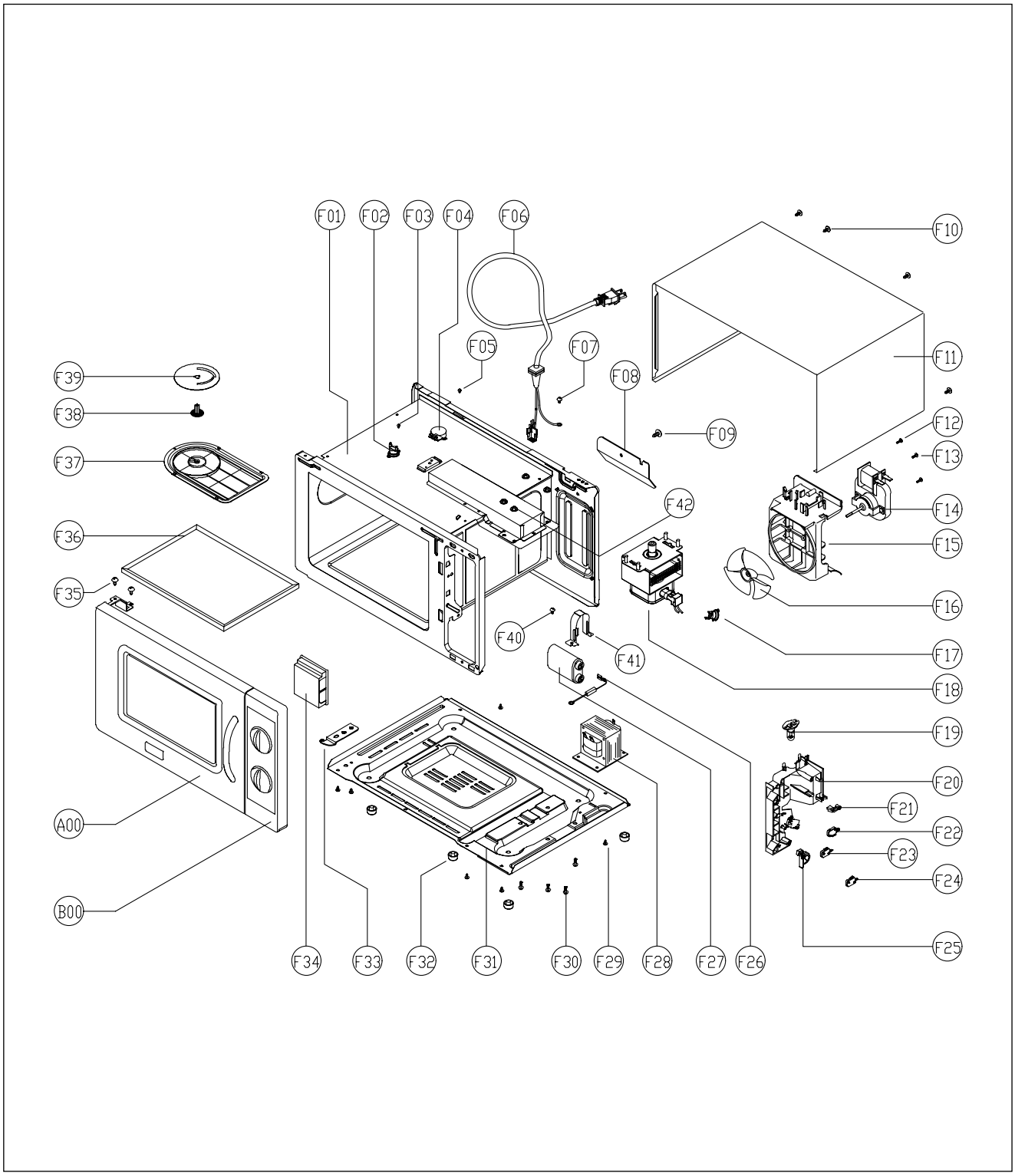


EXPLODED VIEW AND PARTS LIST

1. DOOR ASSEMBLY
Refer to Disassembly and assembly.

2. CONTROL PANEL ASSEMBLY
Refer to Disassembly and assembly.

3. TOTAL ASSEMBLY



NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
A00	3511718600	DOOR AS	KOR-1P55	1
B00	3516728700	CONTROL-PANEL AS	KOR-1P55	1
F01	3516115700	CAVITY AS	KOR-1P55	1
F02	3518905600	THERMOSTAT	OFF:80 ON:50 H #187	1
F03	7121400611	SCREW TAPPING	T2S PAN 4*6 MFZN	1
F04	3966820710	STIRRER MOTOR	120V 2.4W ST-16 KX63MRAA	1
F05	7121400611	SCREW TAPPING	T2S PAN 4*6 MFZN	1
F06	35113UANT5	CORD POWER AS	KOR3*14AWG 60*60 120-RTML	1
F07	7122401011	SCREW TAPPING	T2S TRS 4*10 MFZN	1
F08	3511409500	COVER HOLE OUTER	SBHG 0.8T	1
F09	7272400811	SCREW TAPTITE	TT3 TRS 4*8 MFZN	1
F10	7272400811	SCREW TAPTITE	TT3 TRS 4*8 MFZN	1
F11	3510803320	CABINET	PCM T0.6T	1
F12	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	3
F13	7121403011	SCREW TAPPING	T2S PAN 4*30 MFZN	2
F14	3963822710	MOTOR SHADE POLE	120V 30W 15DWX1-K03	1
F15	3512515300	GUIDE WIND	PP	1
F16	3511800100	FAN	PP GP20	1
F17	3518903400	THERMOSTAT	OFF:150 ON:60 H #187	1
F18	3518003800	MAGNETRON	RM259(STUD)	1
F19	3513601500	LAMP	BL 125V 25W T25 C5A H18	1
F20	3513816000	LOCK	PP	1
F21	3513702100	LEVER SW MICRO	POM	1
F22	4415A17352	SW MICRO	VP-533A-OF SPNO #187	1
F23	4415A66910	SW MICRO	VP-531A-OF/SZM-V16-FA	1
F24	4415A17352	SW MICRO	VP-533A-OF SPNO #187	1
F25	3513700800	LEVER LOCK	POM	1
F26	3518400110	DIODE HV	HVR-1X-70B	1
F27	3518302300	CAPACITOR HV	2100VAC 1.10UF #187	1
F28	3518121000	TRANS HV	DT-R11A0-1PT	1
F29	7112401011	SCREW TAPPING	T1 TRS 4*10 MFZN	6
F30	3516003700	SPECIAL SCREW	TT3 HEX 4*8 FLG MFZN	4
F31	3510313500	BASE	SBHG T0.8	1
F32	3512101400	FOOT	DASF-310	4
F33	3515202800	STOPPER HINGE*U AS	KOR-121M0A	1
F34	3511410000	COVER HOLE INNER	PP(NATURAL)	1
F35	7272400811	SCREW TAPTITE	TT2 TRS 4*8 MFZN	2
F36	3517208900	TRAY AS	SILICON CEILING TEMP GLASS	1
F37	3511410100	COVER STIRRER	PP	1
F38	3517402400	COUPLER STIRRER	PPS	1
F39	3517101200	STIRRER BLADE	AL050-H18 T0.7	1
F40	7S422X4081	SCREW SPECIAL	TT3 TRS 4*8 SE MFZN	1
F41	3513003200	HOLDER HV CAPACITOR	SECC T0.6	1
F42	7S627W50X1	NUT HEX	NUT FLANGE M5*0.8P MFZN	4