

S/M No. :

Service Manual

Microwave Oven

Model: KOM-9P25BS

KOM-9P35BS

DAEWOO

✓ **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>).

DAEWOO 
ELECTRONICS

Dec. 2013

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

- (a) Do not operate or allow the oven to be operated with the door open.
- (b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary: (1) Interlock operation, (2) Proper door closing, (3) Seal and sealing surfaces (arcing, wear, and other damage), (4) Damage to or loosening of hinges and latches, (5) Evidence of dropping or abuse.
- (c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
- (d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
- (e) A microwave leakage check to verify compliance with the Federal performance standard should be performed on each oven prior to release to the owner.

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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, WAVEGUIDE FLANGES AND PASKETS MUST BE SECURE. NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED. NEVER LOOK INTO AN OPEN SAVEGUIDE OR ANTENNA WHILE THE DEVICE IS ENERGIZED.

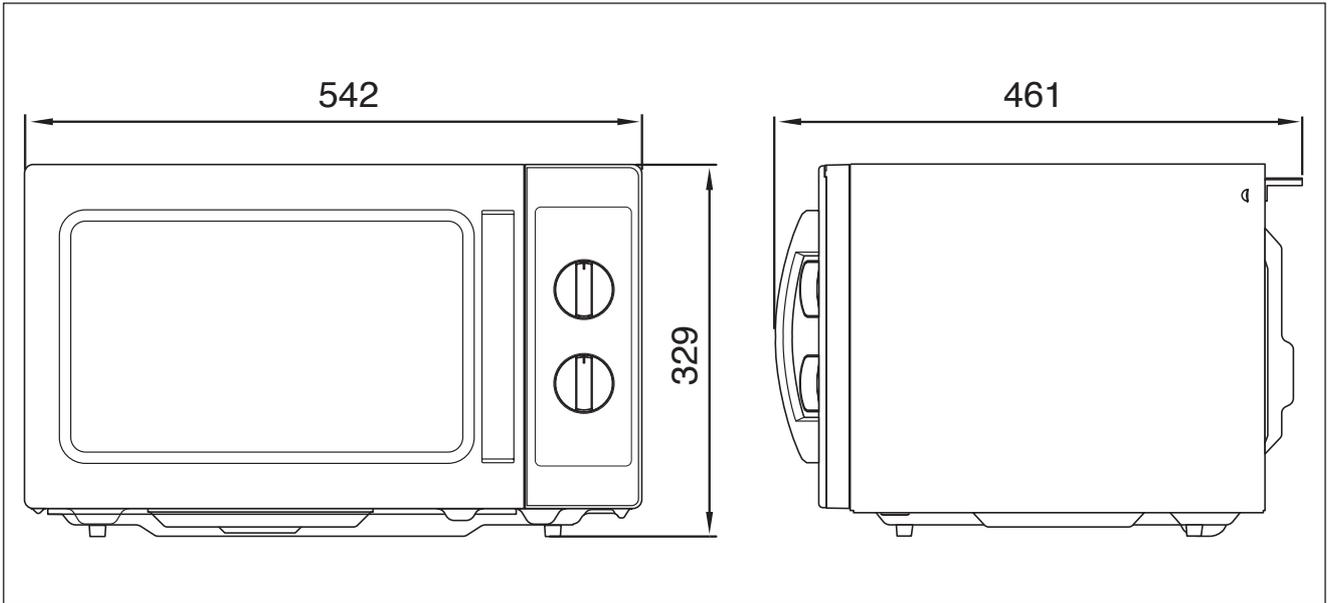
SPECIFICATIONS

MODEL	KOM-9P25BS , KOM-9P35BS	
POWER SUPPLY	240V AC, 50Hz SINGLE PHASE WITH GROUNDING	
MICROWAVE	INPUT POWER	1600 W
	ENERGY OUTPUT	1100 W
	FREQUENCY	2,450MHz
OUTSIDE DIMENSIONS (W x H x D)	542 x 329 x 461 mm	
CAVITY DIMENSIONS (W x H x D)	350 x 230 x 357 mm	
CAVITY VOLUME	29 L	
NET WEIGHT	APPROX. 17.5 Kg (38.58 lbs.)	
TIMER	10min. SINGLE SPEED.	
POWER SELECTIONS	5 Levels	

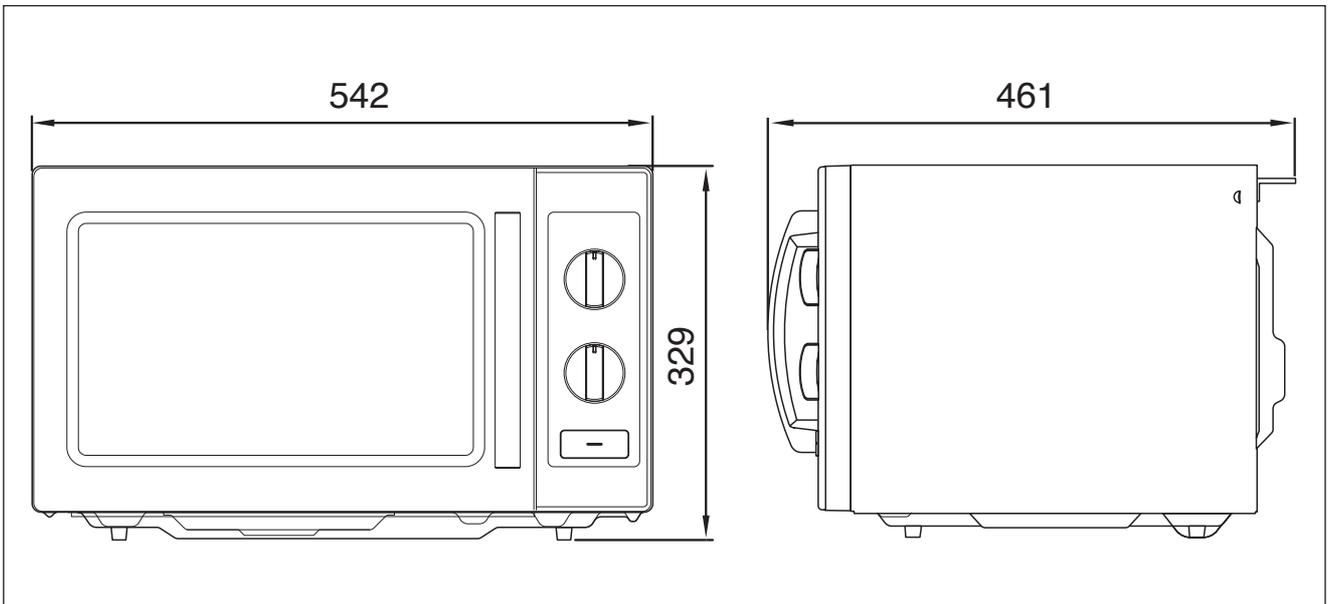
** Specifications are subject to change without notice.*

EXTERNAL VIEW

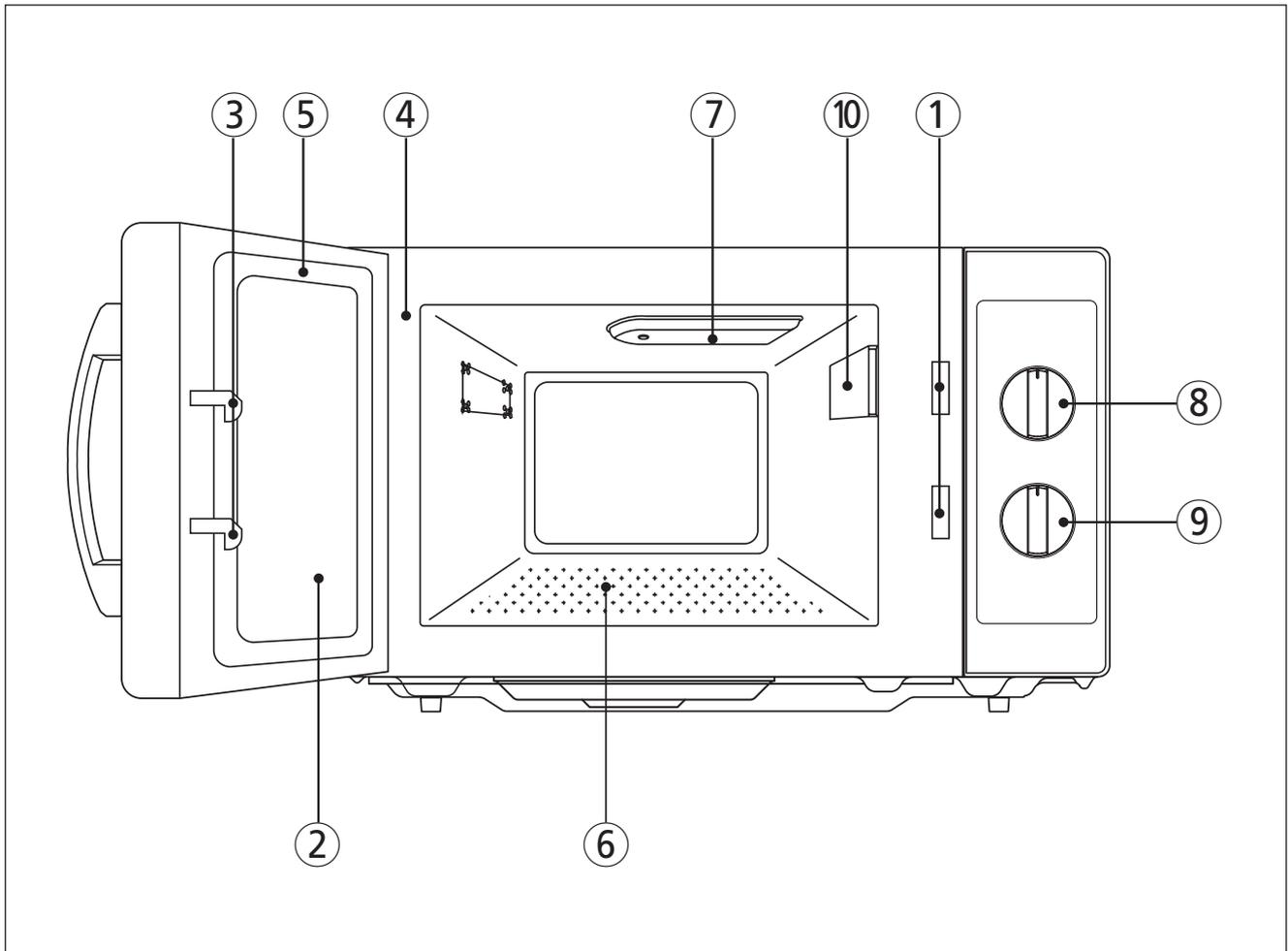
1-1 OUTER DIMENSION (KOM-9P25BS)



1-2 OUTER DIMENSION (KOM-9P35BS)

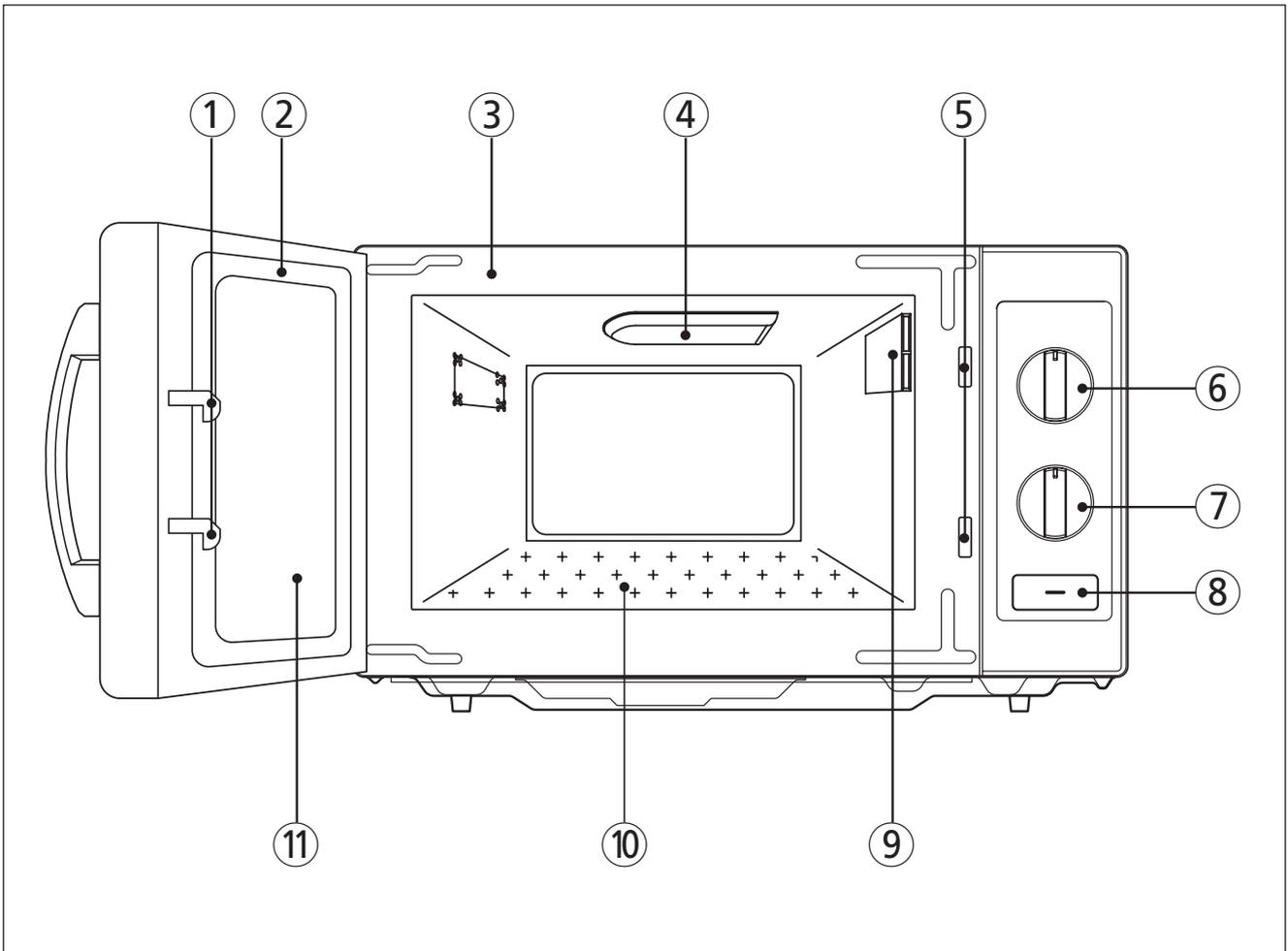


2-1 FEATURES DIAGRAM (KOM-9P25BS)



- 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 door is closed, it will automatically shut off. If the door is opened while the oven is operating, magnetron will immediately stop operating.
- ④ **Oven Cavity.**
- ⑤ **Door Seal** - Door seal maintains the microwave energy within the oven cavity and prevents microwave leakage.
- ⑥ **Plate Tray** - Made of special heat resistant GLASS. Food in a proper receptacle is placed on this plate for cooking.
- ⑦ **Stirrer Cover** - This is located on the ceiling with the stirrer fan.
- ⑧ **Knob V.P.C** - Used to select a microwave power level.
- ⑨ **Knob timer** - Used in setting cooking time for all functions.
- ⑩ **Inlet cover** - Protect the air hole from splashes of cooking foods.

2-2 FEATURES DIAGRAM (KOM-9P35BS)



- ① **Door Hook** - When door is closed, it will automatically shut off. If the door is opened while the oven is operating, magnetron will immediately stop operating.
- ② **Door Seal** - Door seal maintains the microwave energy within the oven cavity and prevents microwave leakage.
- ③ **Oven Cavity.**
- ④ **Stirrer Cover** - This is located on the ceiling with the stirrer fan.
- ⑤ **Safety Interlock System.**
- ⑥ **Knob V.P.C** - Used to select a microwave power level.
- ⑦ **Knob timer** - Used in setting cooking time for all functions.
- ⑧ **START BUTTON**- Used to start the microwave oven. If you push the button, microwave oven will be start.
- ⑨ **Inlet cover** - Protect the air hole from splashes of cooking foods.
- ⑩ **Plate Tray** - Made of special heat resistant GLASS. Food in a proper receptacle is placed on this plate for cooking.
- ⑪ **Door Viewing Screen** - Allows viewing of food. The screen is designed so that light can pass through, but not the microwaves.

INSTALLATION

1. Steady, flat location

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

This microwave oven is designed for counter top use only.

2. Leave space behind and side

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

3. Away from radio, and TV sets

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

4. Away from heating appliances and water taps

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

5. Power supply

- Check your local power source.

This microwave oven requires a current of approximately 7 amperes, 230-240 Volts, 50 Hz.

- Power supply cord is about 1.0 meters long.

- Used the voltage must be the same as specified on this oven. Using a higher voltage may result in a fire or other accident causing oven damage. Using low voltage will cause slow cooking. We are not responsible for damage resulting from use of this oven with a voltage of ampere fuse other than those specified.

- This appliance is supplied with cable of special type, which, if damaged, must be repaired with cable of same type.

Such a cable can be purchased from DAEWOO and must be installed by a qualified person.

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

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

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

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

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

EARTHING INSTRUCTIONS

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

WARNING

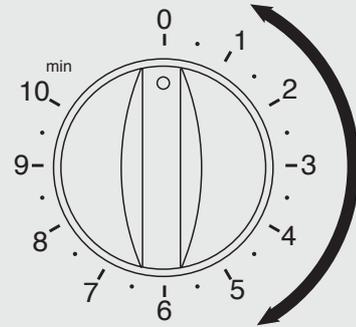
Improper use of the earthing plug can result in a risk of electric shock. Consult a qualified electrician or service-man if the earthing instructions are not completely understood, or if doubt exists as to whether the appliance is properly earthed, and either : If it is necessary to use an extension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

OPERATIONS AND FUNCTIONS

1. Connect the mains lead to an electrical outlet.
2. After placing the food in a suitable container, open the oven door. The plate 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. push the start button. (KOM-9P35BS ONLY)
7. 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.
8. 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

- 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.

POWER LEVEL	OUTPUT POWER
LOW	17%
DEFROST	33%
MEDIUM	55%
MED. HIGH	77%
HIGH	100%

DISASSEMBLY AND ASSEMBLY

Cautions to be observed when troubleshooting.

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

It is completely safe during normal operation.

However, carelessness in servicing the oven can result in an electric shock or possible danger from a short circuit.

You are asked to observe the following precautions carefully.

1. Always remove the power plug from the outlet before servicing.
2. Use an insulated screwdriver and 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 earthed.

It is imperative, therefore, to make sure it is earthed

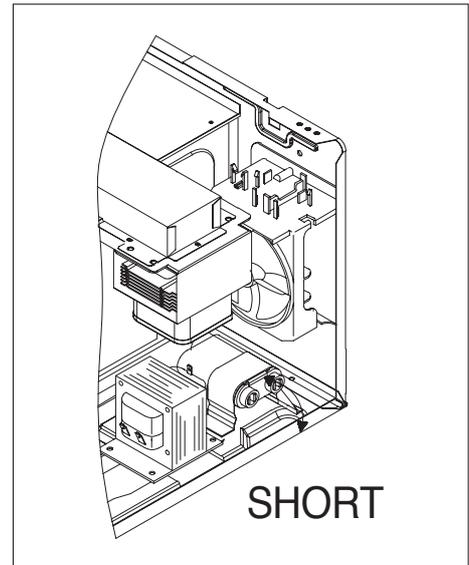
properly before beginning repair work.

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

For about 30 seconds after the operation stopped and electric charge remains in the high voltage capacitor.

When replacing or checking parts, short between oven chassis and the negative high terminal of the high voltage capacitor by using a properly insulated screwdriver to discharge.

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

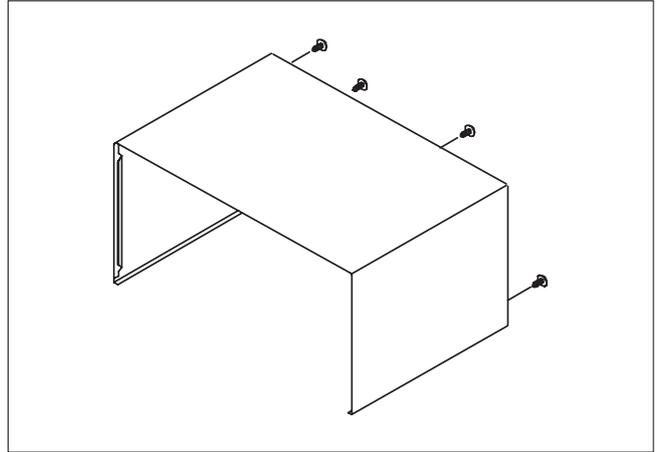


CAUTION : Service personnel should remove their watches whenever working close to or replacing the magnetron.

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

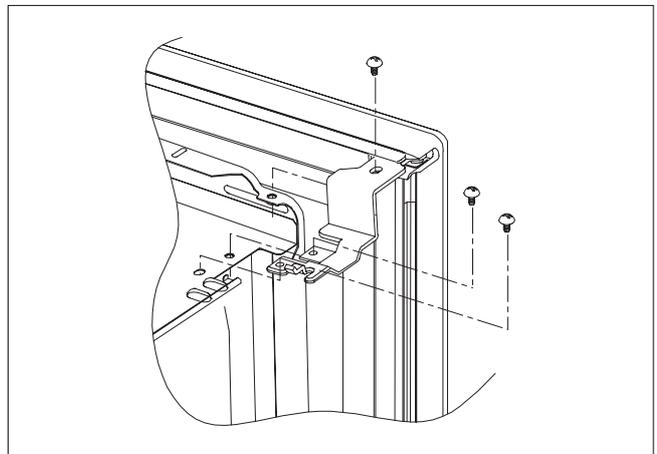
1. To remove cabinet

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



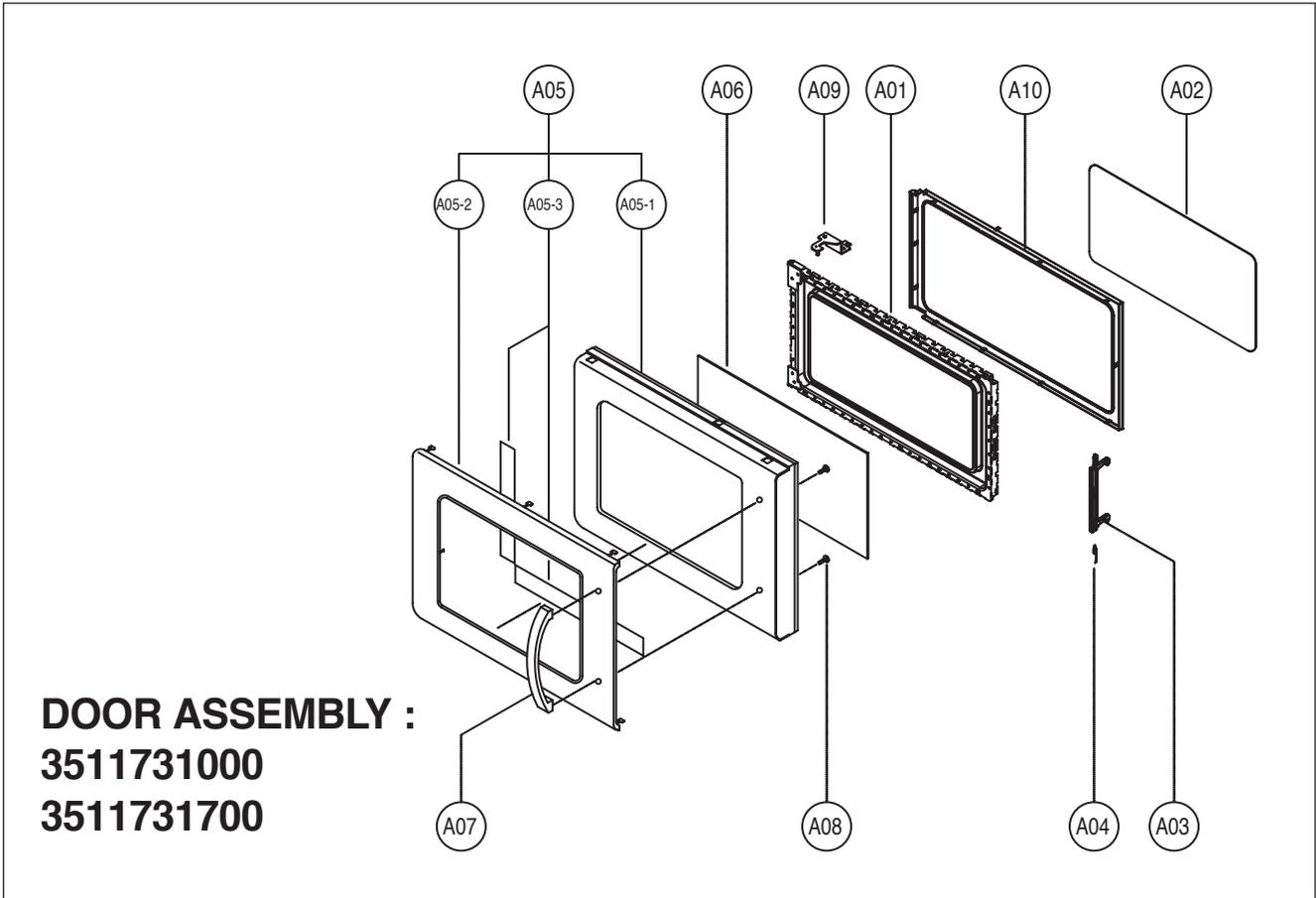
2. To remove door assembly

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



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

3. To remove door parts.

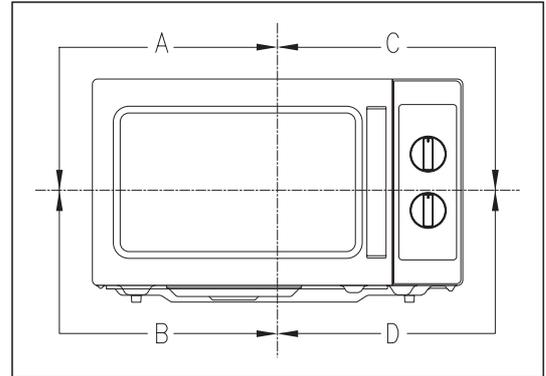


REF NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
A00	3511731000	DOOR AS	KOM-9P2CBS	1	KOM-9P2CBS
	3511731700		KOM-9P2CBS		KOM-9P35BS
A01	3511714800	DOOR PAINTING AS	KOC-910K0S	1	KOM-9P2CBS
	3511731110		KOM-9P2C9S		KOM-9P35BS
A02	3511714700	DOOR SEAL AS	KOC-910K0S	1	KOM-9P2CBS
	3517011600	BARRIER-SCREEN *I	PETP T0.1		KOM-9P35BS
A03	3513101200	HOOK	POM	1	
A04	3515102300	SPRING HOOK	PW1	1	
A05	3511731200	DOOR SUB AS	KOM-9P0C9S	1	KOM-9P2CBS
	3511731810		KOM-9P2C9S		KOM-9P35BS
A06	3517007120	BARRIER-SCREEN *O	TEMP GLASS T3.2 CLEAR	1	
A07	3512604340	HANDLE DOOR	AL	1	
A08	7001401011	SCREW MACHINE	PAN 4X10 MFZN	2	
A09	3515204900	STOPPER HINGE*T AS	KOC-1B0K0S	1	
A10	3512302410	GASKET DOOR	LUPOL 2300	1	

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

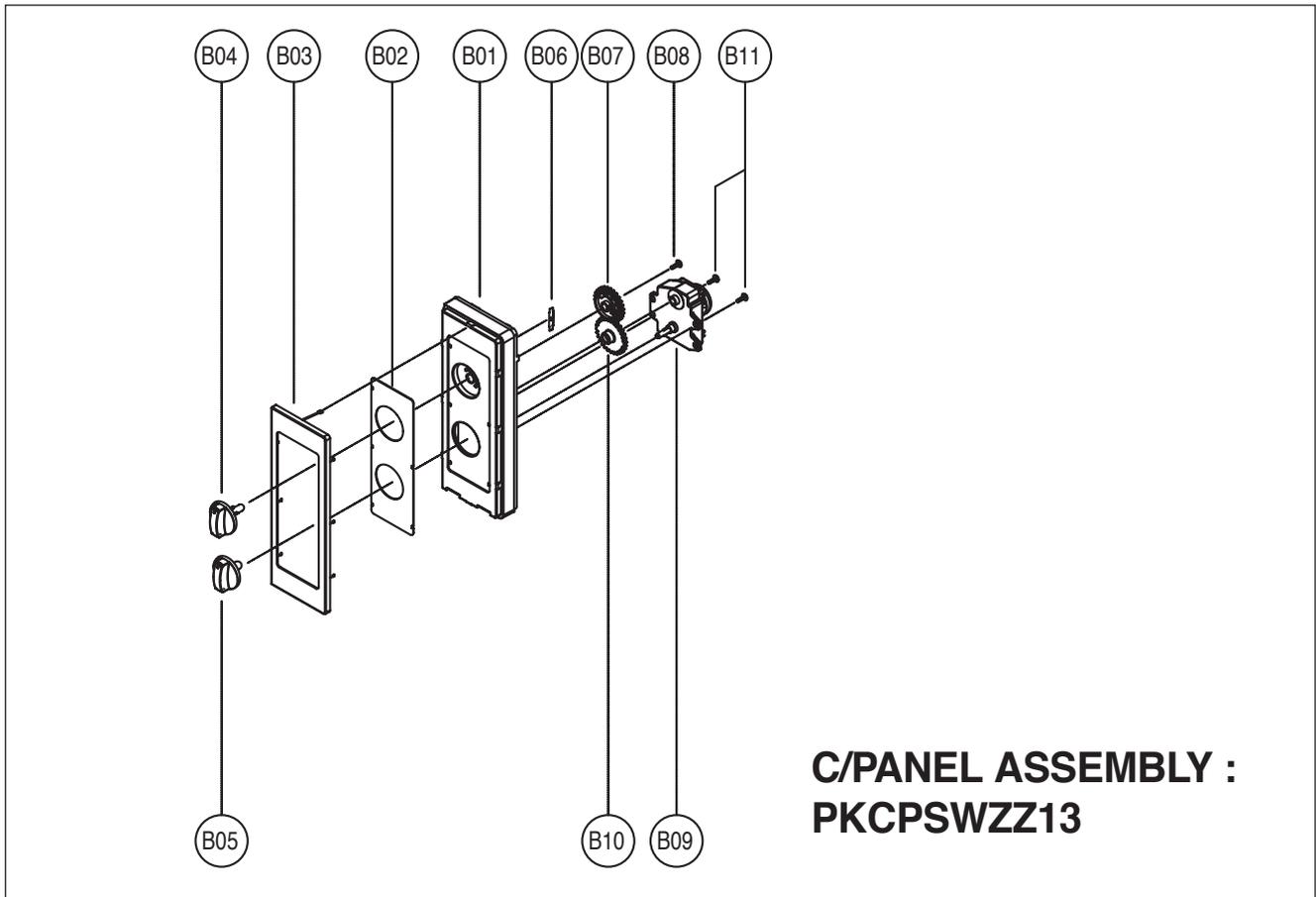
4. Method to reduce the gap between the door seal and the oven front surface.

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



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

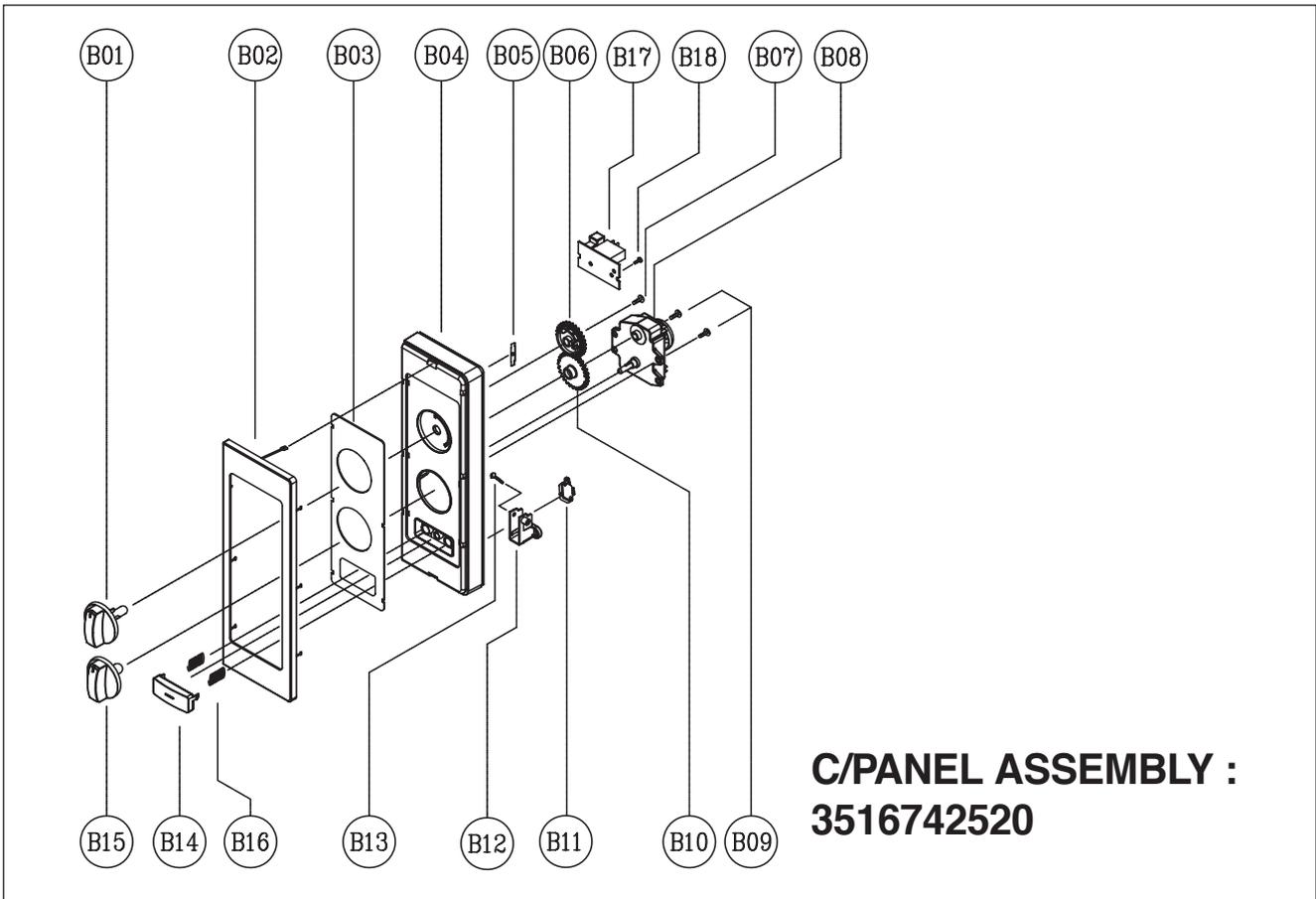
5-1. To remove control panel parts. (KOM-9P25BS)



REF No.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B00	PKCPSWZZ13	CONTROL-PANEL AS	KOM-9P25BS	1	
B01	3516741700	CONTROL-PANEL	ABS SG-175, SG-0760D	1	
B02	3511621600	DECORATOR FILM	PC T0.5	1	
B03	3511621100	DECORATOR C-PANEL	STS430 T0.5 H/L	1	
B04	3513412900	KNOB VPC	ABS SG-0760D SG-175	1	
B05	3513412910	KNOB TIMER	ABS SG-0760D SG-175	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	3518206320	TIMER	NT10MKD01E-P	1	
B10	3517400400	COUPLER TIMER	POM	1	
B11	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	2	

- 1) Remove the screw which secure the control panel and draw forward the control panel assembly.
- 2) Remove two screws which secure the timer assembly.
- 3) Pull out the timer assembly from the control panel.
- 4) Pull out the timer knob from the timer.
- 5) Remove the screw which secure the coupler.
- 6) Pull out the coupler and V.P.C knob from the control panel.
- 7) Reverse the above steps for reassembly.

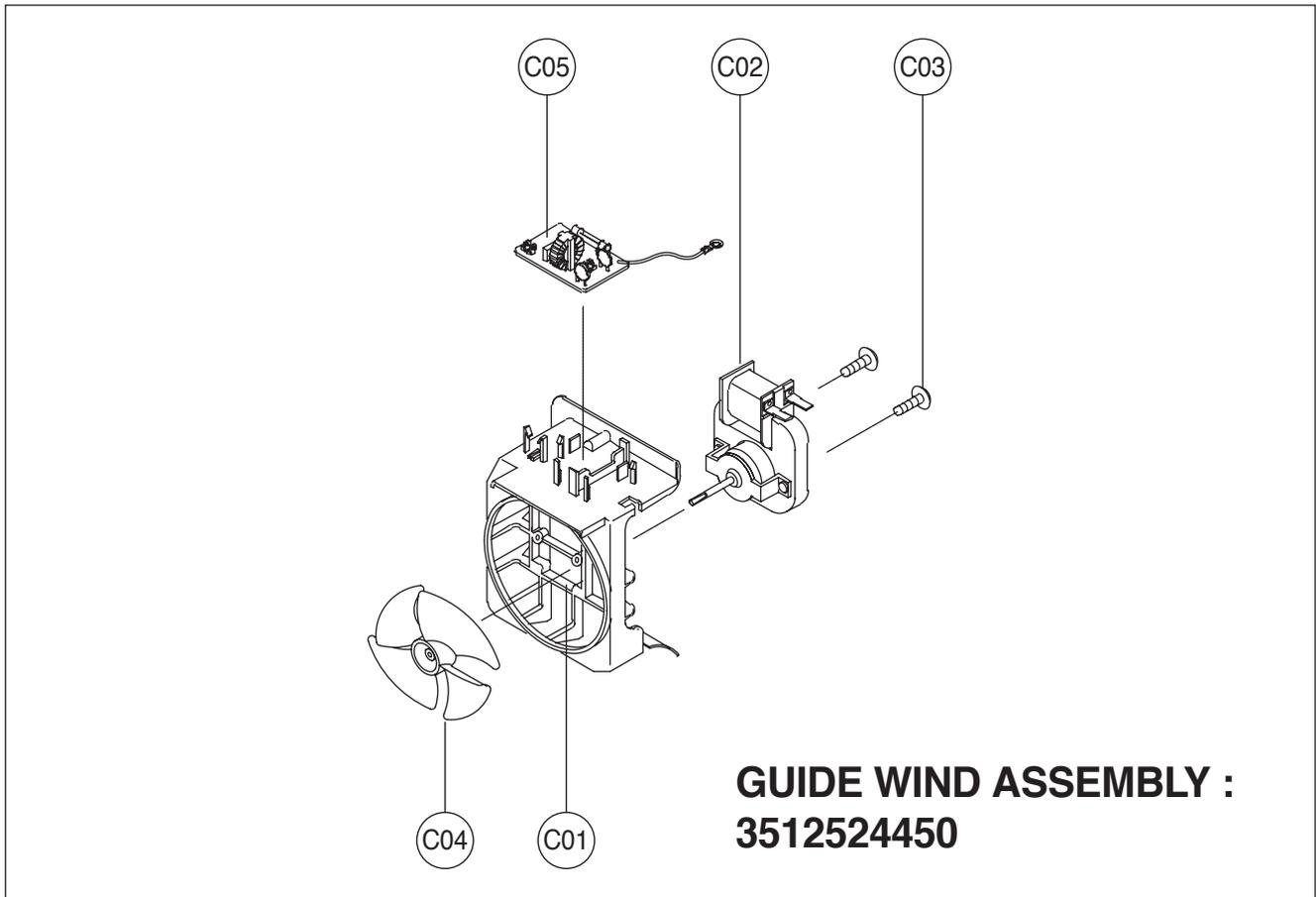
5-2. To remove control panel parts. (KOM-9P35BS)



REF No.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
B00	3516742520	CONTROL-PANEL AS	KOM-9P35BS	1	
B01	3513412920	KNOB VPC	ABS SG-0760D SG-175 COATING	1	
B02	3511621100	DECORATOR C-PANEL	STS430 T0.5 H/L	1	
B03	3511621610	DECORATOR FILM	PC T0.5	1	
B04	3516742510	CONTROL-PANEL	ABS SG-175, SG-0760D	1	
B05	3515101600	SPRING FLAT	SUS 301 T0.5	1	
B06	3517400500	COUPLER VPC KNOB	POM	1	
B07	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	
B08	3518206320	TIMER	NT10MKD01E-P	1	
B09	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	2	
B10	3517400400	COUPLER TIMER	POM	1	
B11	5S766G10G1	SW MICRO	SZM-V16-FD-93 W (400G)	1	
B12	3513006210	HOLDER SWITCH	PP	1	
B13	7121301515	SCREW TAPPING	T2S PAN 3X20 MFZN	1	
B14	3516919930	BUTTON START	ABS SG-0760D SG-175 COATING	1	
B15	3513412930	KNOB TIMER	ABS SG-0760D SG-175 COATING	1	
B16	441G430171	SPRING BUTTON	SWP DIA. 0.7	2	
B17	3518578800	SWITCH S/A RELAY	DWSR-2	1	
B18	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	

- 1) Remove the screw which secure the control panel and draw forward the control panel assembly.
- 2) Remove two screws which secure the timer assembly.
- 3) Pull out the timer assembly from the control panel.
- 4) Pull out the timer knob from the timer.
- 5) Remove the screw which secure the coupler.
- 6) Pull out the coupler and V.P.C knob from the control panel.
- 7) Reverse the above steps for reassembly.

6. To remove guide wind parts.

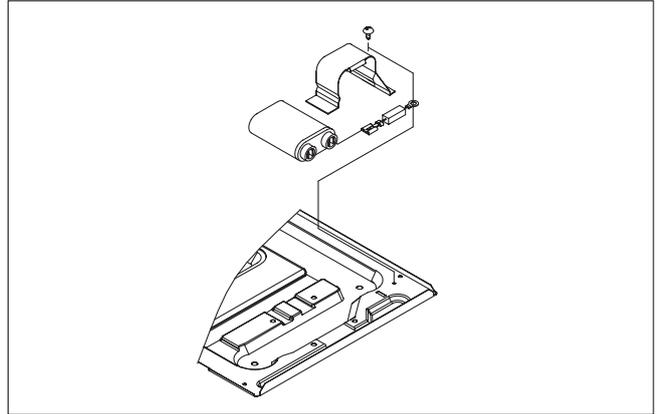


REF No.	PART CODE	PART NAME	DESCRIPTION	Q'TY	REMARK
C00	3512524450	GUIDE WIND AS	KOR-1P559S AMANA		
C01	3512515300	GUIDE WIND	PP	1	
C02	3963514380	MOTOR SHADED POLE	230V 50Hz OEM-15DWC2-C03	1	
C03	7121403011	SCREW TAPPING	T2S PAN 4X30 MFZN	2	
C04	3511800100	FAN	P.P GF20	1	
C05	3518605500	NOISE-FILTER	DWLF-M07	1	

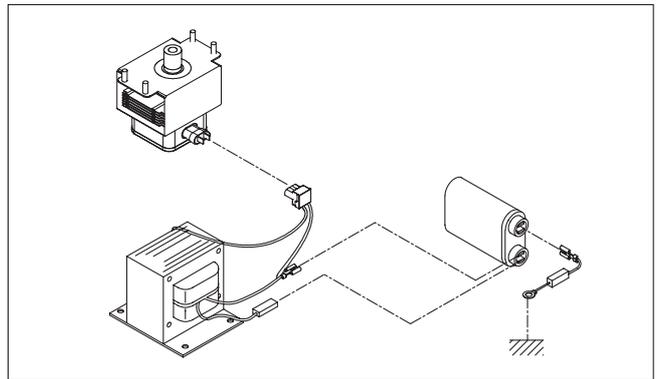
- 1) Remove two screws for earthing and for fixing to rear-plate.
- 2) Remove the noise filter from the guide wind.
- 3) Pull the fan from the motor shaft.
- 4) Remove two screws which secure the motor shaded pole.
- 5) Remove the motor shaded pole.
- 6) Reverse the above steps for reassembly.

7. To remove high voltage capacitor.

- 1) Remove the 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.

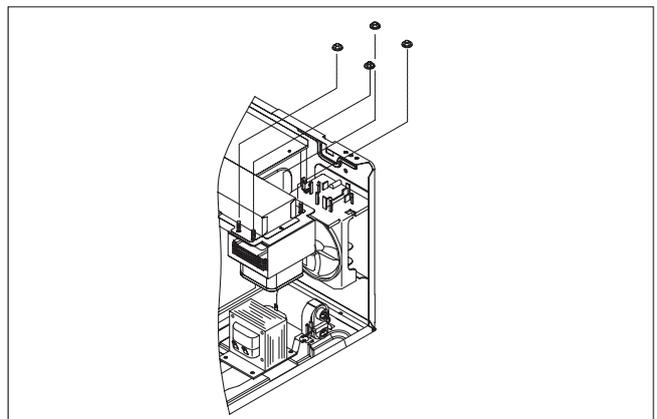


◆ High voltage circuit wiring

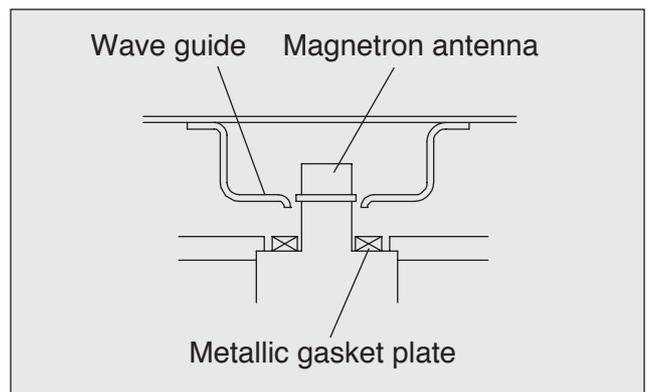
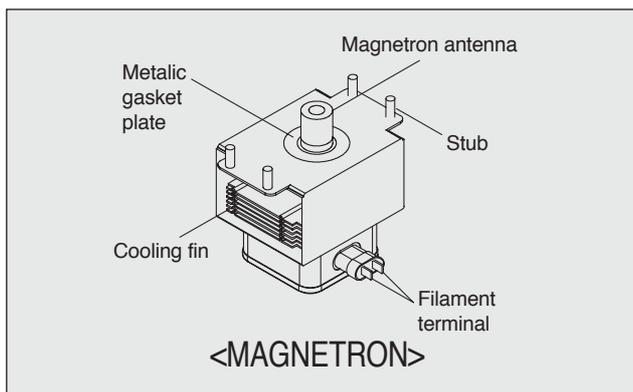


8. To remove magnetron.

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

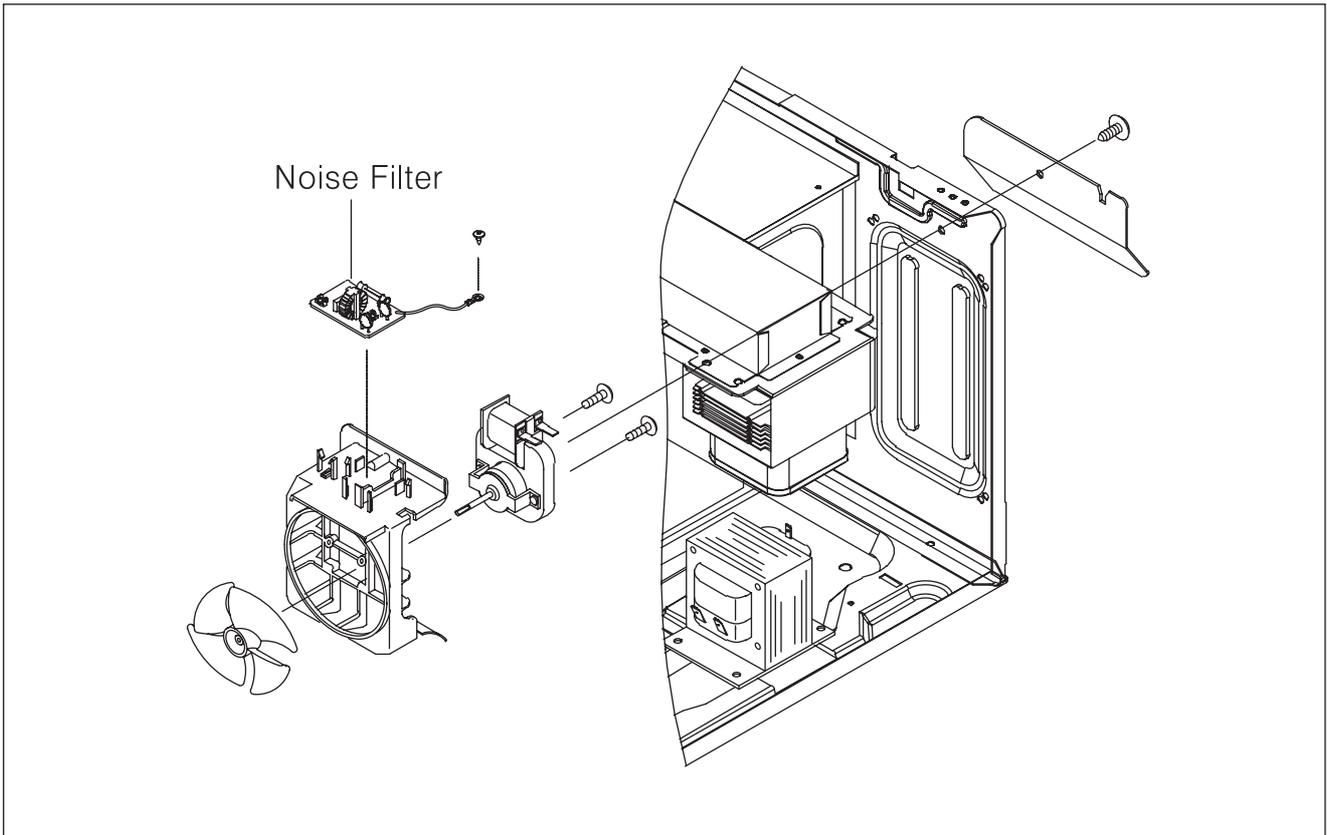


NOTE : Never install the magnetron without the metallic gasket plate which is packed with each magnetron to prevent microwave leakage. Whenever repair work is carried out on magnetron, check the microwave leakage. It shall not exceed 4mW/cm² for a fully assembled oven with door normally closed.



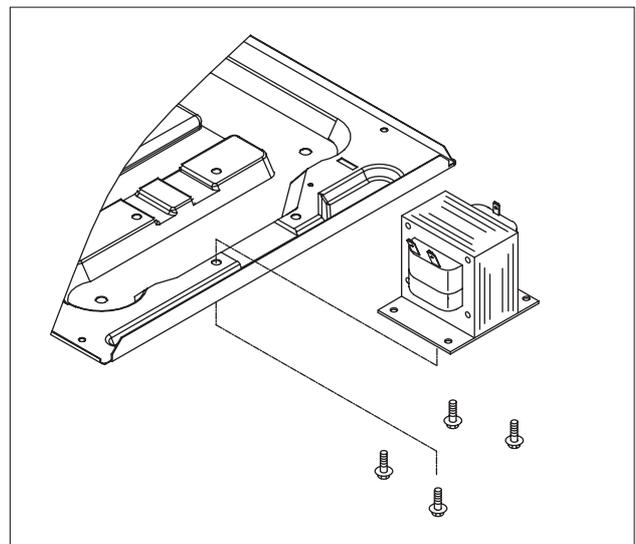
9. To remove wind guide assembly.

- 1) Remove the screw for earthing.
- 2) Remove the noise filter from the wind guide.
- 3) Remove the 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.



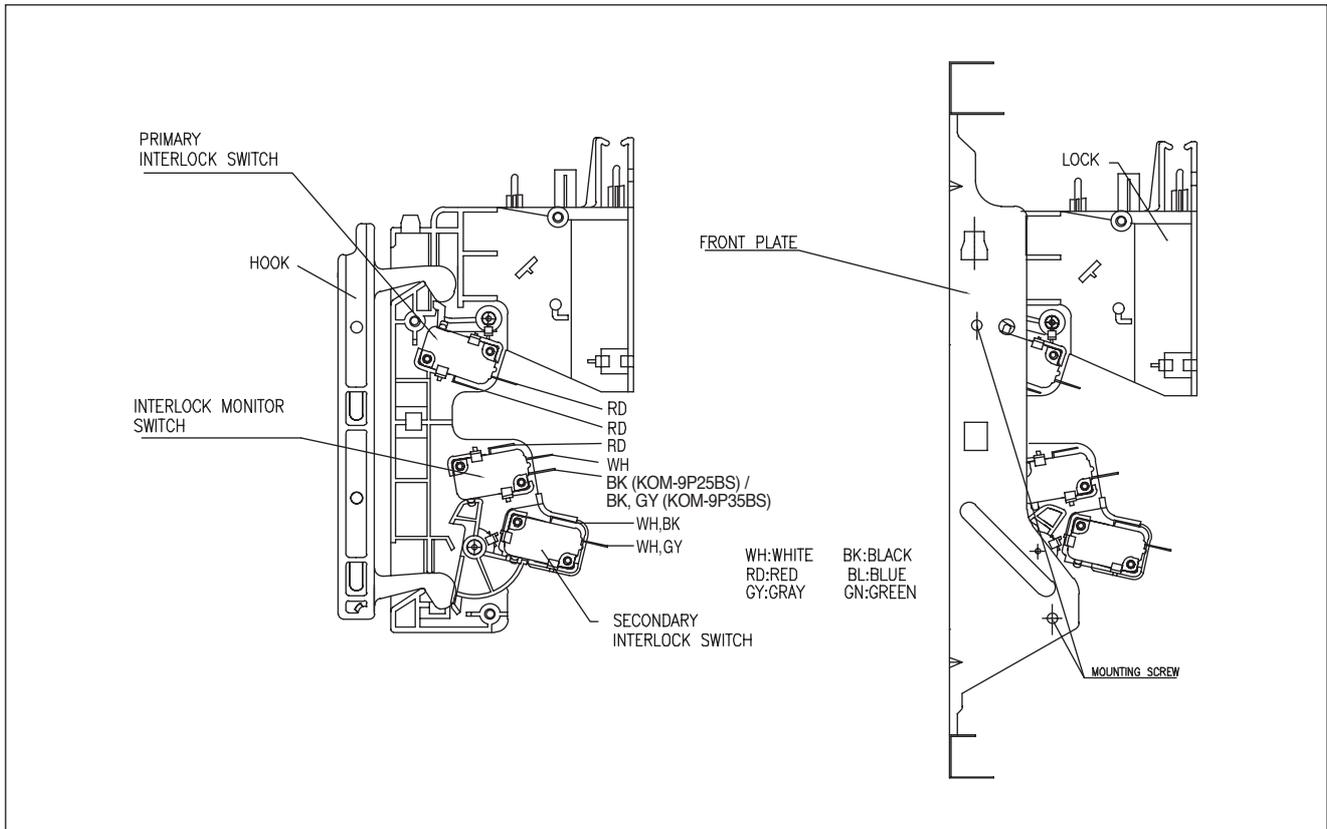
10. To remove H.V.transformer.

- 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. The lock lever 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 two mounting screws.
 - 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 :

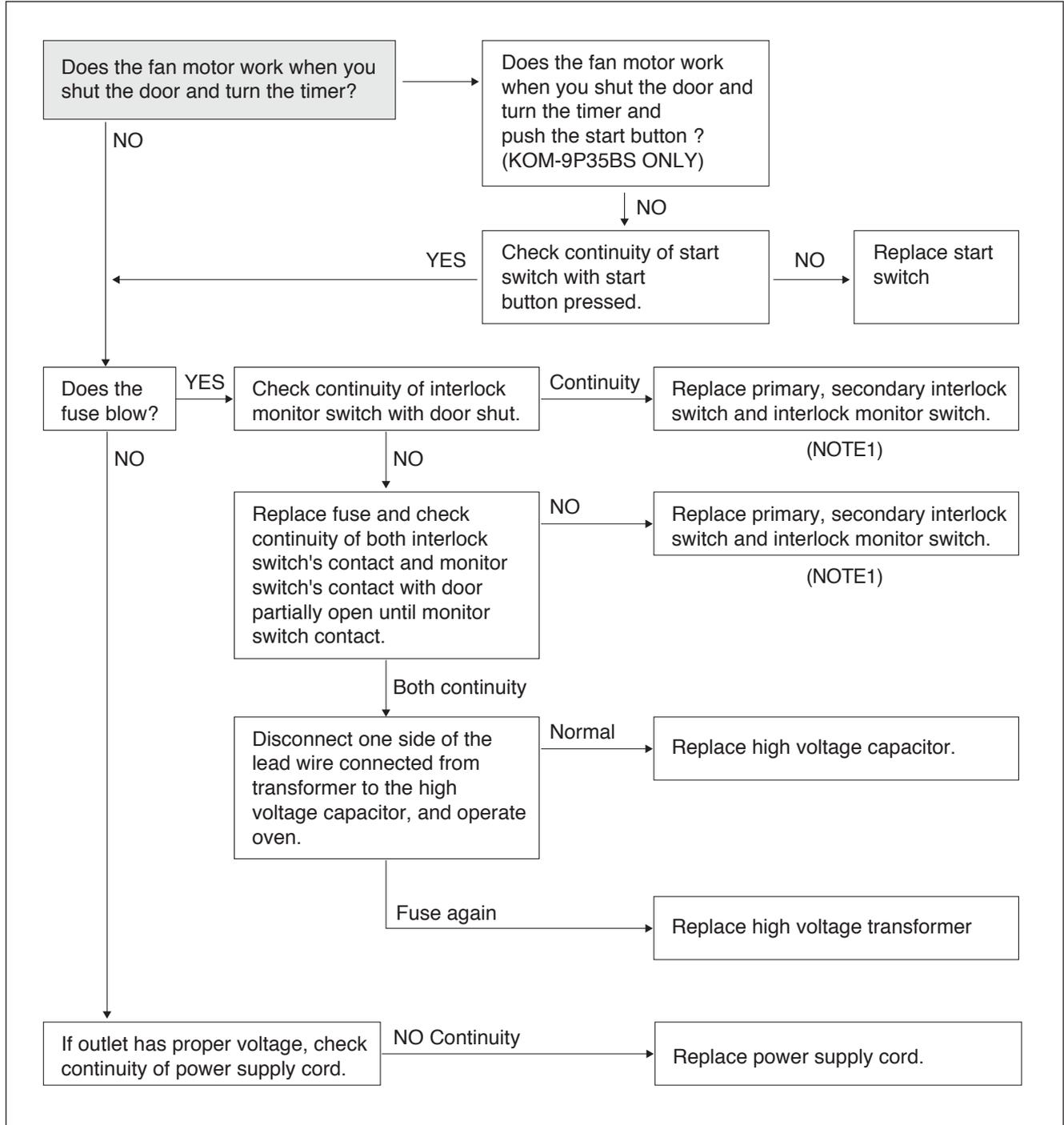
Microwave emission test should be performed after adjusting interlock mechanism.
If the microwave emission exceed $4\text{mW}/\text{cm}^2$, readjust interlock mechanism.

TROUBLESHOOTING GUIDE

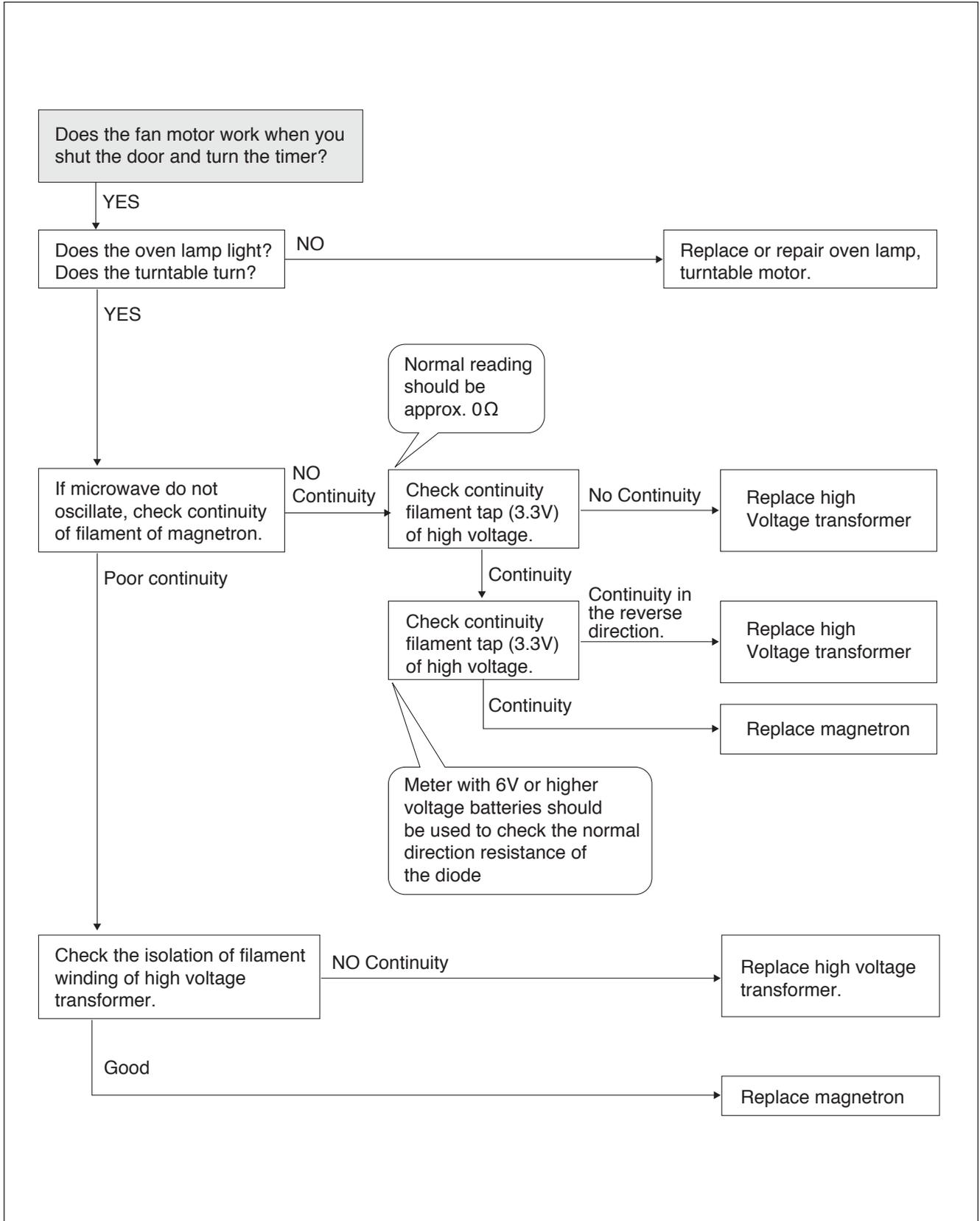
Following the procedure below to check if the oven is defective or not.

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

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



NOTE1 : All these switches must be replaced at the same time, please refer to "Interlock Mechanism And Adjustment"



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.

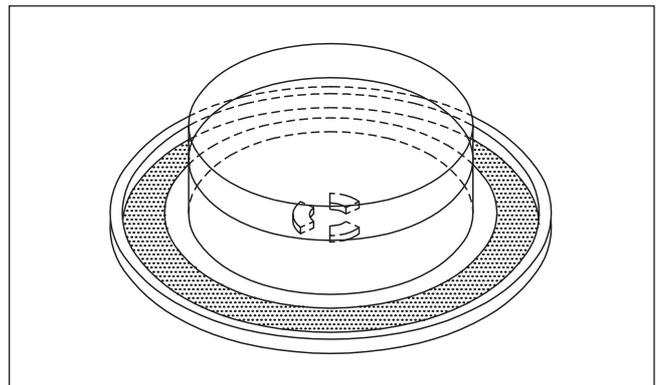
* The microwave power output is stated in watts, rounded off to the nearest 50W

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



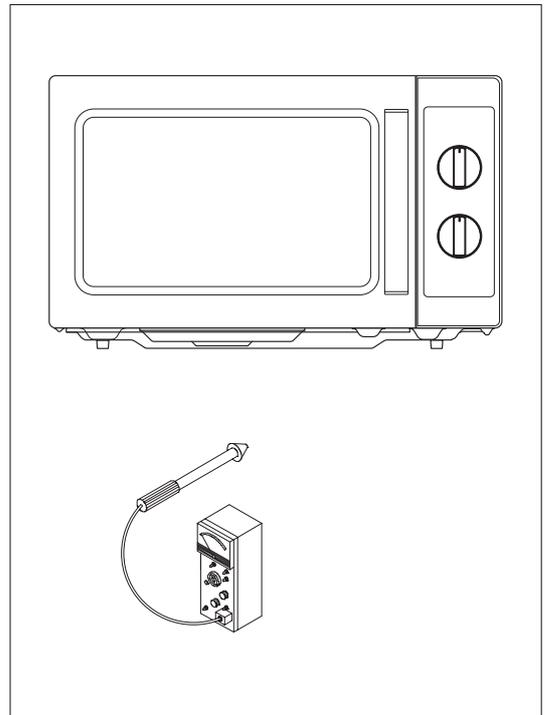
2. MICROWAVE RADIATION TEST

CAUTION :

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

PROCEDURES

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



3. COMPONENT TEST PROCEDURE

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

1. High voltage transformer

- (1) Remove connections from the transformer terminals and check continuity.
- (2) Normal readings should be as follows:
 - Secondary windingApprox. $130.5 \Omega \pm 10\%$
 - Filament windingApprox. 0Ω
 - Primary windingApprox. 1.371Ω

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 is charged.
- (3) A shorted capacitor will show continuous continuity.
- (4) An open capacitor will show constant $10M\Omega$.
- (5) Resistance between each terminal and chassis should be infinite.

3. High voltage diode

- (1) Isolate the diode from the circuit by disconnecting the leads.
- (2) With the ohmmeter set on the highest resistance scale measure the resistance across the diode terminals.
 - Reverse the meter leads and again observe the resistance reading.
 - Meter with 6V, 9V or higher voltage batteries should be used to check the front-back resistance of the diode, otherwise an infinite resistance may be read in both directions.
 - A normal diode's resistance will be infinite in one direction and several hundred $K\Omega$ in the other direction.

4. Magnetron

For complete magnetron diagnosis, refer to "Measurement of the Microwave Power Output".
Continuity checks can only indicate 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 0.1Ω or less.
- (3) A continuity check between each filament terminal and magnetron case should read open.

5. Fuse

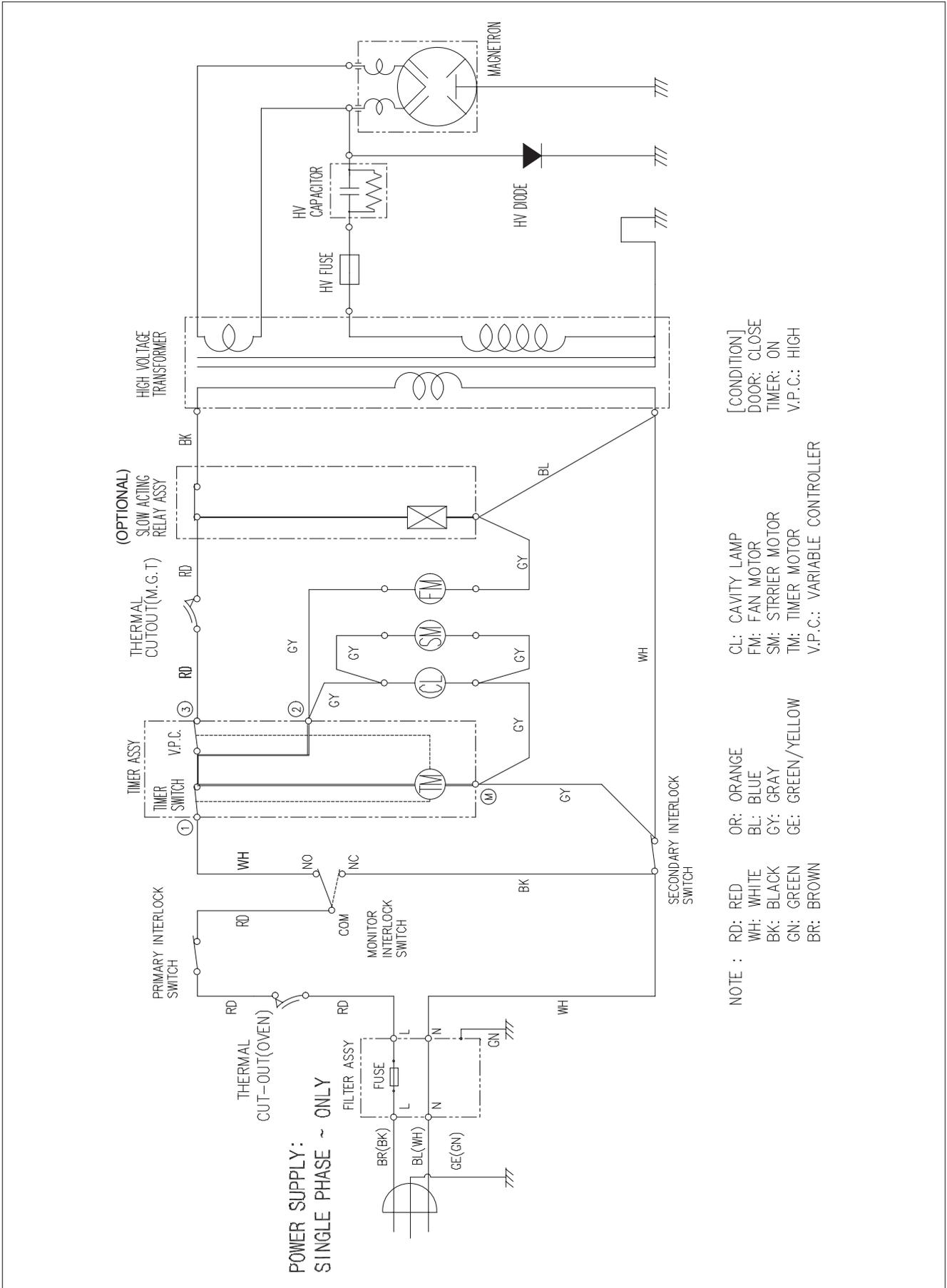
If the fuse in the primary and monitor switch circuit is blown when the door is opened, check the primary and monitor switch before replacing the blown fuse.
In case the fuse is blown by an improper switch operation, replace the defective switch and fuse at the same time.
Replace just the fuse if the switches operate normally.

6. Interlock switches

- (1) You can test continuity of safety interlock and monitor switch by using ohmmeter.
- (2) The switch operation is checked by zero/unlimited. The meter should indicate zero resistance.
- (3) The sequence of check is interlock monitor switch, primary and secondary interlock switches check.

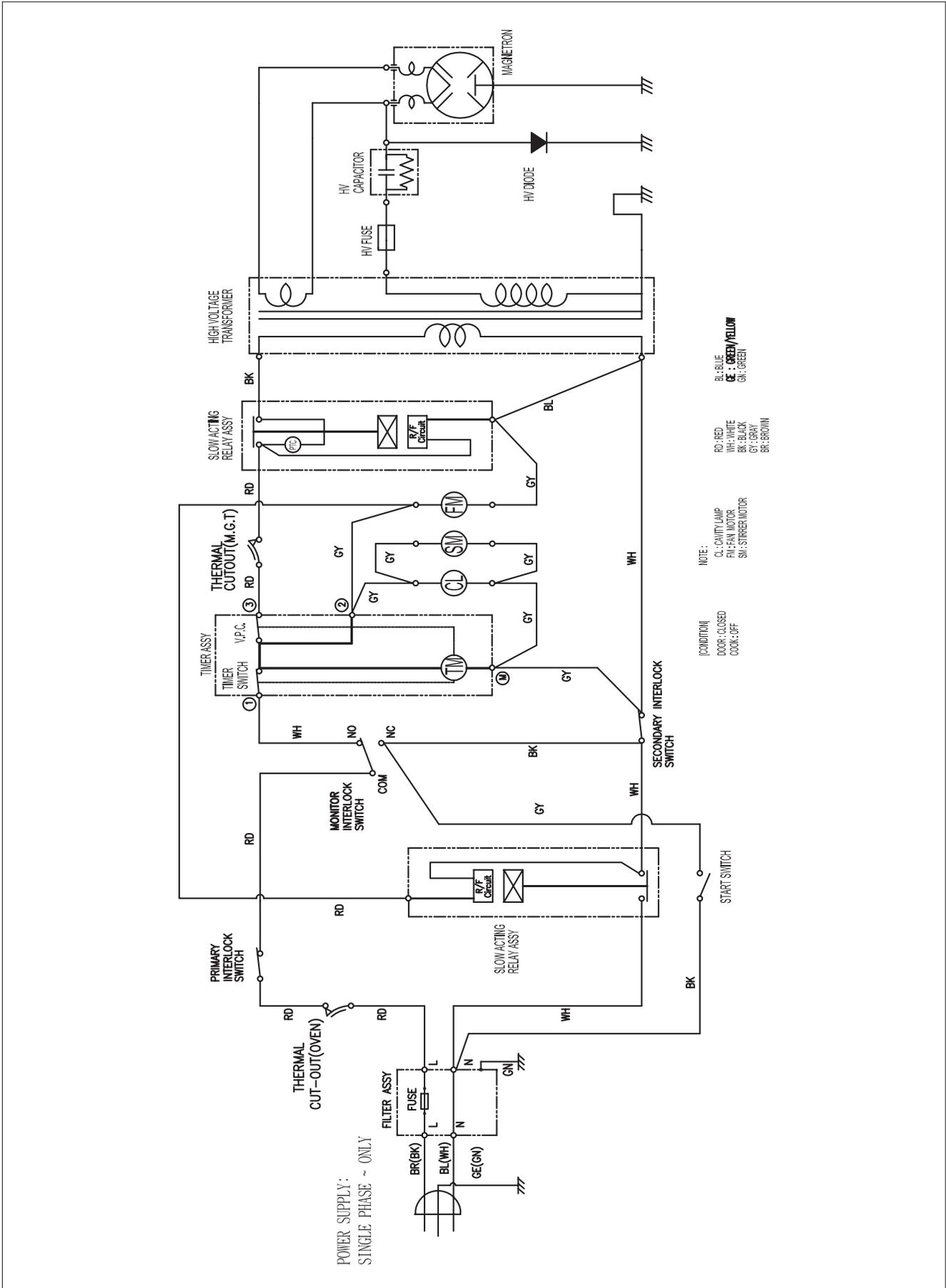
WIRING DIAGRAM

(KOM-9P25BS)



WIRING DIAGRAM

(KOM-9P35BS)



EXPLODED VIEW AND PARTS LIST (KOM-9P25BS)

1. DOOR ASSEMBLY

Refer to Disassembly and assembly.

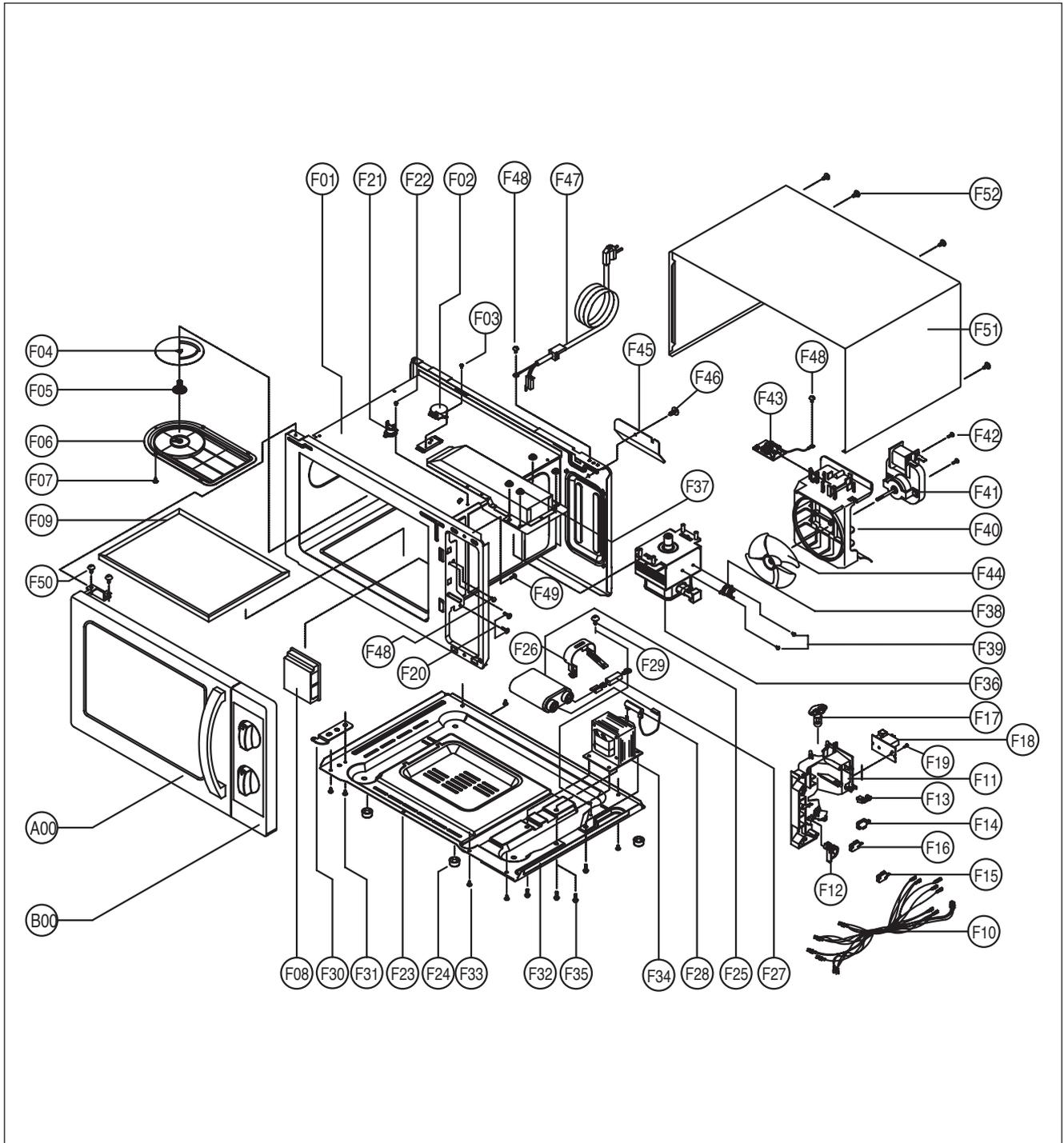
2. CONTROL PANEL ASSEMBLY

Refer to Disassembly and assembly.

3. GUIDE WIND ASSEMBLY

Refer to Disassembly and assembly.

4. TOTAL ASSEMBLY



EXPLODED VIEW AND PARTS LIST (KOM-9P35BS)

1. DOOR ASSEMBLY

Refer to Disassembly and assembly.

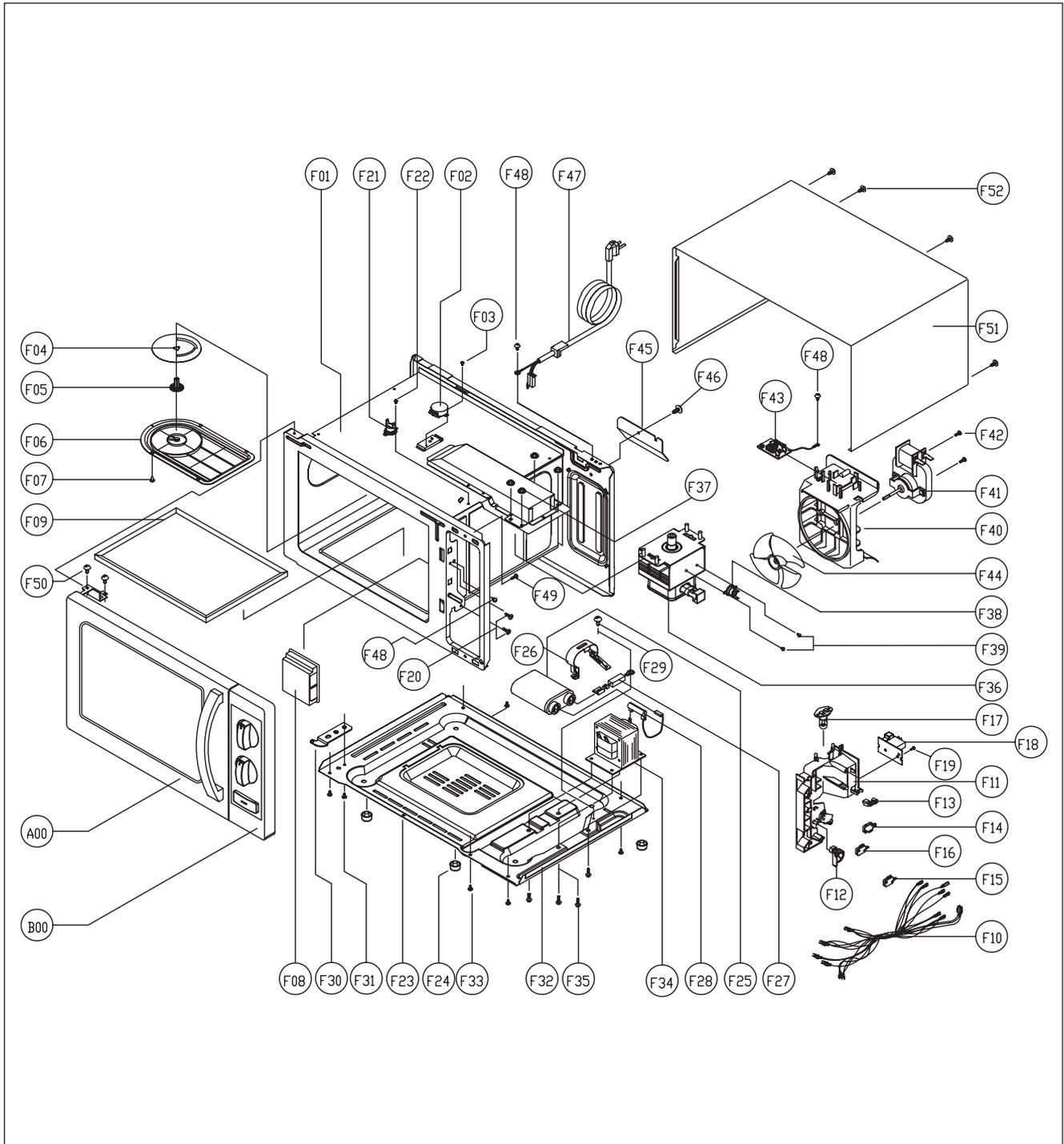
2. CONTROL PANEL ASSEMBLY

Refer to Disassembly and assembly.

3. GUIDE WIND ASSEMBLY

Refer to Disassembly and assembly.

4. TOTAL ASSEMBLY



REF. NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
A00	3511731000	DOOR AS	KOM-9P2CBS	1
	3511731700		KOM-9P35BS	
B00	PKCPSWZZ13	CONTROL-PANEL AS	KOM-9P25BS	1
	3516742520		KOM-9P35BS	
F01	3516121900	CAVITY AS	KOM-9P0C9S	1
F02	3966031300	MOTOR SYNCRO	SM16F -HK36T1FY	1
F03	7121400611	SCREW TAPPING	T2S PAN 4X6 MFZN	1
F04	3517101600	STIRRER BLADE	AL050-H18 T0.7	1
F05	3517402400	COUPLER	STIRRER PPS	1
F06	3511410100	COVER STIRRER	PP	1
F07	4414H50000	FIXTURE AS	KOG-36150S	1
F08	3511410000	COVER HOLE *I	PP	1
F09	3517213100	TRAY AS	KOM-9P0C9S TRAY CEILING	1
F10	3512785100	HARNES MAIN	KOM-9P059S	1
	3512787400		KOM-9P35BS	
F11	3513816000	LOCK	PP	1
F12	3513700800	LEVER LOCK	POM	1
F13	3513702100	LEVER SW MICRO	POM,KOG-846T0S	1
F14	5S766G10G1	SW MICRO	SZM-V16-FD-93 W (400G)	1
F15	4415A17352	SW MICRO	SZM-V16-FA-63	1
F16	4415A66910	SW MICRO	VP-531A-OF/SZM-V16-FA-61	1
F17	3513601600	LAMP	BL 240V 25W T25 C7A H187	1
F18	3518570400	SWITCH S/A RELAY	DWSR-1 (KOM-9P25BS)	1
F19	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1
F20	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	2
F21	3518906510	THERMOSTAT	OFF:85 ON:50 H #187	1
F22	7121400611	SCREW TAPPING	T2S PAN 4X6 MFZN	1
F23	3510319800	BASE	SBHG T0.8	1
F24	3512101400	FOOT	DASF-310	4
F25	3518303720	CAPACITOR HV	2300V 1.15UF #187 CLASS P 85MM	1
F26	3513003700	HOLDER HV CAPACITOR	SECC 0.8T (KOM-9P35BS)	1
F27	3518401410	DIODE HV AS	HV03-12 400MA 12000V #187	1
F28	3518701610	FUSE HV	5KV 1A	1
F29	7S432X4081	SPECIAL SCREW	TT3 TRS 4X8 SE MFZN	1
F30	3515202800	STOPPER HINGE *U AS	KOR-121M0A	1
F31	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	1
F32	3517304600	FOAM	CR 6TX220X30	1

REF. NO	PART CODE	PART NAME	DESCRIPTION	Q'TY
F33	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	6
F34	3518121760	TRANS HV	R9S59A DS30	1
F35	3516003700	SPECIAL SCREW	TT3 HEX 4X8 FLG MFZN	4
F36	3518003810	MAGNETRON	2M248H(DW)-B	1
F37	7S627W50X1	NUT HEX	NUT FLANGE M5X0.8P MFZN	4
F38	3518903900	THERMOSTAT	OFF:160 ON:115 H #187	1
F39	7121300611	SCREW TAPPING	T2S PAN 3X6 MFZN	2
F40	3512515300	GUIDE WIND	PP	1
F41	3963514380	MOTOR SHADED POLE	230V 50HZ OEM-15DWC2-C03	1
F42	7121403011	SCREW TAPPING	T2S PAN 4X30 MFZN	2
F43	3518605500	NOISE-FILTER	DWLF-M07	1
F44	3511800100	FAN	P.P GF20	1
F45	3511409500	COVER HOLE *O	SBHG T0.8	1
F46	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1
F47	3511345QM5	CORD POWER AS	3X1.0 80X80 120-RTML RUBBER(UK)	1
F48	7122401011	SCREW TAPPING	T2S TRS 4*10 MFZN	2
F49	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1
F50	7272400811	SCREW TAPTITE	TT3 TRS 4X8 MFZN	3
F51	3510810620	CABINET	STS 430 NO4 T0.5	1
F52	7S312X40A1	SCREW SPECIAL	T1 TRS 4X10 SE MFZN	4



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